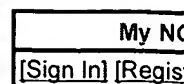
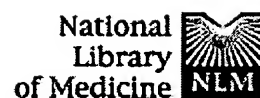


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☐ 1: [Xie X, Wu G, Lu ZH, Rohowsky-Kochan C, Ledeen RW.](#) [Related Articles, Links](#)

Presence of sodium-calcium exchanger/GM1 complex in the nuclear envelope of non-neural cells: nature of exchanger-GM1 interaction. *Neurochem Res.* 2004 Nov;29(11):2135-46. PMID: 15662848 [PubMed - indexed for MEDLINE]

☐ 2: [Aneiros E, Philipp S, Lis A, Freichel M, Cavalie A.](#) [Related Articles, Links](#)

Modulation of Ca²⁺ signaling by Na⁺/Ca²⁺ exchangers in mast cells. *J Immunol.* 2005 Jan 1;174(1):119-30. PMID: 15611234 [PubMed - indexed for MEDLINE]

☐ 3: [Uemura N, Ohkusa T, Hamano K, Nakagome M, Hori H, Shimizu M, Matsuzaki M, Mochizuki S, Minamisawa S, Ishikawa Y.](#) [Related Articles, Links](#)

Down-regulation of sarcolipin mRNA expression in chronic atrial fibrillation. *Eur J Clin Invest.* 2004 Nov;34(11):723-30. PMID: 15530144 [PubMed - indexed for MEDLINE]

☐ 4: [Zhang S, Yuan JX, Barrett KE, Dong H.](#) [Related Articles, Links](#)

Role of Na⁺/Ca²⁺ exchange in regulating cytosolic Ca²⁺ in cultured human pulmonary artery smooth muscle cells. *Am J Physiol Cell Physiol.* 2005 Feb;288(2):C245-52. Epub 2004 Sep 29. PMID: 15456699 [PubMed - indexed for MEDLINE]

☐ 5: [Ke YS, Wang HG, Wang DG, Zhang GB.](#) [Related Articles, Links](#)

Endoxin-mediated myocardial ischemia reperfusion injury in rats in vitro. *Can J Physiol Pharmacol.* 2004 Jun;82(6):402-8. PMID: 15381964 [PubMed - indexed for MEDLINE]

☐ 6: [Bracken NK, Woodall AJ, Howarth FC, Singh J.](#) [Related Articles, Links](#)


Voltage-dependence of contraction in streptozotocin-induced diabetic myocytes. *Mol Cell Biochem.* 2004 Jun;261(1-2):235-43. PMID: 15362509 [PubMed - indexed for MEDLINE]

☐ 7: [Iwamoto T.](#) [Related Articles, Links](#)


Forefront of Na⁺/Ca²⁺ exchanger studies: molecular pharmacology of Na⁺/Ca²⁺ exchange inhibitors. *J Pharmacol Sci.* 2004 Sep;96(1):27-32. Epub 2004 Sep 10. Review.

PMID: 15359084 [PubMed - indexed for MEDLINE]


- ☐ **8:** [Uehara A, Iwamoto T, Nakamura Y, Imanaga I.](#) Related Articles, Links

 Forefront of Na⁺/Ca²⁺ exchanger studies: physiology and molecular biology of monovalent cation sensitivities in Na⁺/Ca²⁺ exchangers. J Pharmacol Sci. 2004 Sep;96(1):19-22. Epub 2004 Sep 10. Review. PMID: 15359082 [PubMed - indexed for MEDLINE]


- ☐ **9:** [Hinata M, Kimura J.](#) Related Articles, Links

 Forefront of Na⁺/Ca²⁺ exchanger studies: stoichiometry of cardiac Na⁺/Ca²⁺ exchanger; 3:1 or 4:1? J Pharmacol Sci. 2004 Sep;96(1):15-8. Epub 2004 Sep 10. Review. PMID: 15359081 [PubMed - indexed for MEDLINE]


- ☐ **10:** [Xiao YF, Ke Q, Chen Y, Morgan JP, Leaf A.](#) Related Articles, Links

 Inhibitory effect of n-3 fish oil fatty acids on cardiac Na⁺/Ca²⁺ exchange currents in HEK293t cells. Biochem Biophys Res Commun. 2004 Aug 13;321(1):116-23. PMID: 15358223 [PubMed - indexed for MEDLINE]


- ☐ **11:** [Sathish JG, Falati S, Croce K, Crump C, Furie BC, Furie B, Poole AW.](#) Related Articles, Links

 Antibody cross-linking of human platelet P-selectin induces calcium entry by a mechanism dependent upon Fcγ receptor IIA. Thromb Haemost. 2004 Sep;92(3):598-605. PMID: 15351857 [PubMed - indexed for MEDLINE]


- ☐ **12:** [Matsuoka S.](#) Related Articles, Links

 Forefront of Na⁺/Ca²⁺ exchanger studies: regulation kinetics of Na⁺/Ca²⁺ exchangers. J Pharmacol Sci. 2004 Sep;96(1):12-4. Epub 2004 Sep 4. Review. PMID: 15351790 [PubMed - indexed for MEDLINE]


- ☐ **13:** [Chaudhary KW, Rossman EI, Piacentino V 3rd, Kenessey A, Weber C, Gaughan JP, Ojamaa K, Klein I, Bers DM, Houser SR, Margulies KB.](#) Related Articles, Links

 Altered myocardial Ca²⁺ cycling after left ventricular assist device support in the failing human heart. J Am Coll Cardiol. 2004 Aug 18;44(4):837-45. PMID: 15312868 [PubMed - indexed for MEDLINE]

- ☐ **14:** [Wasson S, Reddy HK, Dohrmann ML.](#) Related Articles, Links

 Current perspectives of electrical remodeling and its therapeutic implications. J Cardiovasc Pharmacol Ther. 2004 Jun;9(2):129-44. Review. PMID: 15309249 [PubMed - indexed for MEDLINE]

- ☐ **15:** [Hasenfuss G, Schillinger W.](#) Related Articles, Links

 Is modulation of sodium-calcium exchange a therapeutic option in heart failure? Circ Res. 2004 Aug 6;95(3):225-7. No abstract available. PMID: 15297383 [PubMed - indexed for MEDLINE]

- ☐ **16:** Related Articles, Links

[Visch HJ, Rutter GA, Koopman WJ, Koenderink JB, Verkaart S, de Groot T, Varadi A, Mitchell KJ, van den Heuvel LP, Smeitink](#)

JA, Willems PH.



Inhibition of mitochondrial Na⁺-Ca²⁺ exchange restores agonist-induced ATP production and Ca²⁺ handling in human complex I deficiency. J Biol Chem. 2004 Sep 24;279(39):40328-36. Epub 2004 Jul 21. PMID: 15269216 [PubMed - indexed for MEDLINE]

☐ **17:** Gabellini N.

Related Articles, Links



Transcriptional regulation by cAMP and Ca²⁺ links the Na⁺/Ca²⁺ exchanger 3 to memory and sensory pathways. Mol Neurobiol. 2004 Aug;30(1):91-116. Review. PMID: 15247490 [PubMed - indexed for MEDLINE]

☐ **18:** Cheung JY, Song J, Rothblum LI, Zhang XQ.

Related Articles, Links



Exercise training improves cardiac function postinfarction: special emphasis on recent controversies on na⁺/ca²⁺ exchanger. Exerc Sport Sci Rev. 2004 Jul;32(3):83-9. Review. PMID: 15243202 [PubMed - indexed for MEDLINE]

☐ **19:** Hobai IA, Maack C, O'Rourke B.

Related Articles, Links



Partial inhibition of sodium/calcium exchange restores cellular calcium handling in canine heart failure. Circ Res. 2004 Aug 6;95(3):292-9. Epub 2004 Jun 24. PMID: 15217911 [PubMed - indexed for MEDLINE]

☐ **20:** Akabas MH.

Related Articles, Links



Na⁺/Ca²⁺ exchange inhibitors: potential drugs to mitigate the severity of ischemic injury. Mol Pharmacol. 2004 Jul;66(1):8-10. No abstract available. PMID: 15213290 [PubMed - indexed for MEDLINE]

☐ **21:** Kiedrowski L, Czyz A, Baranauskas G, Li XF, Lytton J.

Related Articles, Links



Differential contribution of plasmalemmal Na/Ca exchange isoforms to sodium-dependent calcium influx and NMDA excitotoxicity in depolarized neurons. J Neurochem. 2004 Jul;90(1):117-28. PMID: 15198672 [PubMed - indexed for MEDLINE]

☐ **22:** Kinjo TG, Szerencsei RT, Winkfein RJ, Schnetkamp PP.

Related Articles, Links



Role of cysteine residues in the NCKX2 Na⁺/Ca(2⁺)-K⁺ Exchanger: generation of a functional cysteine-free exchanger. Biochemistry. 2004 Jun 22;43(24):7940-7. PMID: 15196038 [PubMed - indexed for MEDLINE]

☐ **23:** Mohler PJ, Splawski I, Napolitano C, Bottelli G, Sharpe L, Timothy K, Priori SG, Keating MT, Bennett V.

Related Articles, Links











A cardiac arrhythmia syndrome caused by loss of ankyrin-B function. Proc Natl Acad Sci U S A. 2004 Jun 15;101(24):9137-42. Epub 2004 Jun 3. PMID: 15178757 [PubMed - indexed for MEDLINE]










☐ **24:** Hobai IA, O'Rourke B.










Related Articles, Links












The potential of Na⁺/Ca²⁺ exchange blockers in the treatment of cardiac disease. Expert Opin Investig Drugs. 2004 Jun;13(6):653-64. Review. PMID: 15174951 [PubMed - indexed for MEDLINE]

- ☐ **25:** [Bolck B, Munch G, Mackenstein P, Hellmich M, Hirsch I, Reuter H, Hattebuhr N, Weig HJ, Ungerer M, Brixius K, Schwinger RH.](#) Related Articles, Links
 **Na⁺/Ca²⁺ exchanger overexpression impairs frequency- and ouabain-dependent cell shortening in adult rat cardiomyocytes.**
Am J Physiol Heart Circ Physiol. 2004 Oct;287(4):H1435-45. Epub 2004 May 27.
PMID: 15165985 [PubMed - indexed for MEDLINE]
- ☐ **26:** [Tintinger GR, Anderson R.](#) Related Articles, Links
 **Counteracting effects of NADPH oxidase and the Na⁺/Ca²⁺ exchanger on membrane repolarisation and store-operated uptake of Ca²⁺ by chemoattractant-activated human neutrophils.**
Biochem Pharmacol. 2004 Jun 15;67(12):2263-71.
PMID: 15163557 [PubMed - indexed for MEDLINE]
- ☐ **27:** [Chernysh O, Condrescu M, Reeves JP.](#) Related Articles, Links
 **Calcium-dependent regulation of calcium efflux by the cardiac sodium/calcium exchanger.**
Am J Physiol Cell Physiol. 2004 Sep;287(3):C797-806. Epub 2004 May 19.
PMID: 15151903 [PubMed - indexed for MEDLINE]
- ☐ **28:** [Craner MJ, Newcombe J, Black JA, Hartle C, Cuzner ML, Waxman SG.](#) Related Articles, Links
 **Molecular changes in neurons in multiple sclerosis: altered axonal expression of Nav1.2 and Nav1.6 sodium channels and Na⁺/Ca²⁺ exchanger.**
Proc Natl Acad Sci U S A. 2004 May 25;101(21):8168-73. Epub 2004 May 17.
PMID: 15148385 [PubMed - indexed for MEDLINE]
- ☐ **29:** [Iwamoto T, Kita S.](#) Related Articles, Links
 **Development and application of Na⁺/Ca²⁺ exchange inhibitors.**
Mol Cell Biochem. 2004 Apr;259(1-2):157-61. Review.
PMID: 15124919 [PubMed - indexed for MEDLINE]
- ☐ **30:** [El-Armouche A, Jaeckel E, Boheler KR, Boknik P, Hertle B, Neumann J, Eschenhagen T.](#) Related Articles, Links
 **Ouabain treatment is associated with upregulation of phosphatase inhibitor-1 and Na⁺/Ca(2⁺)-exchanger and beta-adrenergic sensitization in rat hearts.**
Biochem Biophys Res Commun. 2004 May 21;318(1):219-26.
PMID: 15110776 [PubMed - indexed for MEDLINE]
- ☐ **31:** [von Lewinski D, Stumme B, Fialka F, Luers C, Pieske B.](#) Related Articles, Links
 **Functional relevance of the stretch-dependent slow force response in failing human myocardium.**
Circ Res. 2004 May 28;94(10):1392-8. Epub 2004 Apr 22.
PMID: 15105296 [PubMed - indexed for MEDLINE]
- ☐ **32:** [Xu YJ, Chapman D, Dixon IM, Sethi R, Guo X, Dhalla NS.](#) Related Articles, Links
 **Differential gene expression in infarct scar and viable myocardium from rat heart following coronary ligation.**
J Cell Mol Med. 2004 Jan-Mar;8(1):85-92.
PMID: 15090263 [PubMed - indexed for MEDLINE]
- ☐ **33:** [Seiler PU, Stypmann J, Breithardt G, Schulze-Bahr E.](#) Related Articles, Links

-  Real-time RT-PCR for gene expression profiling in blood of heart failure patients-a pilot study: gene expression in blood of heart failure patients. Basic Res Cardiol. 2004 May;99(3):230-8. Epub 2004 Feb 19. PMID: 15088108 [PubMed - indexed for MEDLINE]
- ☐ **34:** Palty R, Ohana E, Hershinkel M, Volokita M, Elgazar V, Beharier O, Silverman WF, Argaman M, Sekler I. Related Articles, Links
 Lithium-calcium exchange is mediated by a distinct potassium-independent sodium-calcium exchanger. J Biol Chem. 2004 Jun 11;279(24):25234-40. Epub 2004 Apr 1. PMID: 15060069 [PubMed - indexed for MEDLINE]
- ☐ **35:** Osborne NN, Wood JP, Chidlow G, Casson R, DeSantis L, Schmidt KG. Related Articles, Links
 Effectiveness of levobetaxolol and timolol at blunting retinal ischaemia is related to their calcium and sodium blocking activities: relevance to glaucoma. Brain Res Bull. 2004 Feb 15;62(6):525-8. Review. PMID: 15036567 [PubMed - indexed for MEDLINE]
- ☐ **36:** Diaz-Horta O, Van Eylen F, Herchuelz A. Related Articles, Links
 Na/Ca exchanger overexpression induces endoplasmic reticulum stress, caspase-12 release, and apoptosis. Ann N Y Acad Sci. 2003 Dec;1010:430-2. PMID: 15033764 [PubMed - indexed for MEDLINE]
- ☐ **37:** Hegde M, Roscoe J, Cala P, Gorin F. Related Articles, Links
 Amiloride kills malignant glioma cells independent of its inhibition of the sodium-hydrogen exchanger. J Pharmacol Exp Ther. 2004 Jul;310(1):67-74. Epub 2004 Mar 9. PMID: 15010500 [PubMed - indexed for MEDLINE]
- ☐ **38:** Roberts DE, McNicol A, Bose R. Related Articles, Links
 Mechanism of collagen activation in human platelets. J Biol Chem. 2004 May 7;279(19):19421-30. Epub 2004 Feb 23. PMID: 14981087 [PubMed - indexed for MEDLINE]
- ☐ **39:** Yasumura Y, Takemura K, Sakamoto A, Kitakaze M, Miyatake K. Related Articles, Links
 Changes in myocardial gene expression associated with beta-blocker therapy in patients with chronic heart failure. J Card Fail. 2003 Dec;9(6):469-74. PMID: 14966788 [PubMed - indexed for MEDLINE]
- ☐ **40:** Schnetkamp PP. Related Articles, Links
 The SLC24 Na⁺/Ca²⁺-K⁺ exchanger family: vision and beyond. Pflugers Arch. 2004 Feb;447(5):683-8. Epub 2003 May 6. Review. PMID: 14770312 [PubMed - indexed for MEDLINE]
- ☐ **41:** Seemann G, Sachse FB, Weiss DL, Dossel O. Related Articles, Links
 Quantitative reconstruction of cardiac electromechanics in human myocardium: regional heterogeneity. J Cardiovasc Electrophysiol. 2003 Oct;14(10 Suppl):S219-28. PMID: 14760927 [PubMed - indexed for MEDLINE]
- Varro A, Biliczki P, Iost N, Virag L, Hala O, Kovacs P, Matyus

- ☐ **42:** [P, Papp JG.](#) Related Articles, Links
 Theoretical possibilities for the development of novel antiarrhythmic drugs.
Curr Med Chem. 2004 Jan;11(1):1-11. Review.
PMID: 14754422 [PubMed - indexed for MEDLINE]
- ☐ **43:** [Ikeda M, Nagashima T, Bhattacharjee AK, Kondoh T, Kohmura E, Tamaki N.](#) Related Articles, Links
 Quantitative analysis of hyperosmotic and hypothermic blood-brain barrier opening.
Acta Neurochir Suppl. 2003;86:559-63.
PMID: 14753506 [PubMed - indexed for MEDLINE]
- ☐ **44:** [Rosker C, Graziani A, Lukas M, Eder P, Zhu MX, Romanin C, Groschner K.](#) Related Articles, Links
 Ca(2+) signaling by TRPC3 involves Na(+) entry and local coupling to the Na(+)/Ca(2+) exchanger.
J Biol Chem. 2004 Apr 2;279(14):13696-704. Epub 2004 Jan 21.
PMID: 14736881 [PubMed - indexed for MEDLINE]
- ☐ **45:** [Sato M, Gong H, Terracciano CM, Ranu H, Harding SE.](#) Related Articles, Links
 Loss of beta-adrenoceptor response in myocytes overexpressing the Na+/Ca(2+)-exchanger.
J Mol Cell Cardiol. 2004 Jan;36(1):43-8.
PMID: 14734046 [PubMed - indexed for MEDLINE]
- ☐ **46:** [Xiao RP, Balke CW.](#) Related Articles, Links
 Na+/Ca2+ exchange linking beta2-adrenergic G(i) signaling to heart failure: associated defect of adrenergic contractile support.
J Mol Cell Cardiol. 2004 Jan;36(1):7-11. No abstract available.
PMID: 14734040 [PubMed - indexed for MEDLINE]
- ☐ **47:** [Ogura J, Mitamura M, Someya A, Shimamura K, Takayama H, Aimi N, Horie S, Murayama T.](#) Related Articles, Links
 Mesaconitine-induced relaxation in rat aorta: role of Na+/Ca2+ exchangers in endothelial cells.
Eur J Pharmacol. 2004 Jan 12;483(2-3):139-46.
PMID: 14729101 [PubMed - indexed for MEDLINE]
- ☐ **48:** [Amran MS, Homma N, Hashimoto K.](#) Related Articles, Links
 Pharmacology of KB-R7943: a Na+-Ca2+ exchange inhibitor.
Cardiovasc Drug Rev. 2003 Winter;21(4):255-76. Review.
PMID: 14647531 [PubMed - indexed for MEDLINE]
- ☐ **49:** [Cai X, Lytton J.](#) Related Articles, Links
 Molecular cloning of a sixth member of the K+-dependent Na+/Ca2+ exchanger gene family, NCKX6.
J Biol Chem. 2004 Feb 13;279(7):5867-76. Epub 2003 Nov 18.
PMID: 14625281 [PubMed - indexed for MEDLINE]
- ☐ **50:** [Rizzuto R.](#) Related Articles, Links
 Calcium mobilization from mitochondria in synaptic transmitter release.
J Cell Biol. 2003 Nov 10;163(3):441-3. Review.
PMID: 14610050 [PubMed - indexed for MEDLINE]

- ☐ **51:** [Hill JA.](#) Related Articles, Links
 Electrical remodeling in cardiac hypertrophy.
Trends Cardiovasc Med. 2003 Nov;13(8):316-22. Review.
PMID: 14596946 [PubMed - indexed for MEDLINE]
- ☐ **52:** [Reeves JP, Condrescu M.](#) Related Articles, Links
 Allosteric activation of sodium-calcium exchange activity by calcium: persistence at low calcium concentrations.
J Gen Physiol. 2003 Nov;122(5):621-39.
PMID: 14581586 [PubMed - indexed for MEDLINE]
- ☐ **53:** [Ohana E, Segal D, Palty R, Ton-That D, Moran A, Sensi SL, Weiss JH, Hershfinkel M, Sekler I.](#) Related Articles, Links
 A sodium zinc exchange mechanism is mediating extrusion of zinc in mammalian cells.
J Biol Chem. 2004 Feb 6;279(6):4278-84. Epub 2003 Oct 27.
PMID: 14581475 [PubMed - indexed for MEDLINE]
- ☐ **54:** [Khan SA, Hare JM.](#) Related Articles, Links
 The role of nitric oxide in the physiological regulation of Ca²⁺ cycling.
Curr Opin Drug Discov Devel. 2003 Sep;6(5):658-66. Review.
PMID: 14579515 [PubMed - indexed for MEDLINE]
- ☐ **55:** [Weber CR, Piacentino V 3rd, Houser SR, Bers DM.](#) Related Articles, Links
 Dynamic regulation of sodium/calcium exchange function in human heart failure.
Circulation. 2003 Nov 4;108(18):2224-9. Epub 2003 Oct 13.
PMID: 14557358 [PubMed - indexed for MEDLINE]
- ☐ **56:** [Sergeeva OA, Amberger BT, Eriksson KS, Scherer A, Haas HL.](#) Related Articles, Links
 Co-ordinated expression of 5-HT_{2C} receptors with the NCX1 Na⁺/Ca²⁺ exchanger in histaminergic neurones.
J Neurochem. 2003 Nov;87(3):657-64.
PMID: 14535948 [PubMed - indexed for MEDLINE]
- ☐ **57:** [Bers DM, Eisner DA, Valdivia HH.](#) Related Articles, Links
 Sarcoplasmic reticulum Ca²⁺ and heart failure: roles of diastolic leak and Ca²⁺ transport.
Circ Res. 2003 Sep 19;93(6):487-90. No abstract available.
PMID: 14500331 [PubMed - indexed for MEDLINE]
- ☐ **58:** [Bernecker OY, del Monte F, Hajjar RJ.](#) Related Articles, Links
 Gene therapy for the treatment of heart failure--calcium signaling.
Semin Thorac Cardiovasc Surg. 2003 Jul;15(3):268-76. Review.
PMID: 12973704 [PubMed - indexed for MEDLINE]
- ☐ **59:** [Malli R, Frieden M, Osibow K, Zoratti C, Mayer M, Demaurex N, Graier WF.](#) Related Articles, Links
 Sustained Ca²⁺ transfer across mitochondria is Essential for mitochondrial Ca²⁺ buffering, store-operated Ca²⁺ entry, and Ca²⁺ store refilling.
J Biol Chem. 2003 Nov 7;278(45):44769-79. Epub 2003 Aug 26.
PMID: 12941956 [PubMed - indexed for MEDLINE]
- [Schuh K, Quaschnig T, Knauer S, Hu K, Kocak S, Roethlein N.](#) Related Articles, Links

☐ 60: [Neyses L.](#)

Regulation of vascular tone in animals overexpressing the sarcolemmal calcium pump.

J Biol Chem. 2003 Oct 17;278(42):41246-52. Epub 2003 Aug 4.

PMID: 12900399 [PubMed - indexed for MEDLINE]

☐ 61: [Kang K, Schnetkamp PP.](#)

[Related Articles, Links](#)



Signal sequence cleavage and plasma membrane targeting of the retinal rod NCKX1 and cone NCKX2 Na⁺/Ca²⁺ - K⁺ exchangers.

Biochemistry. 2003 Aug 12;42(31):9438-45.

PMID: 12899631 [PubMed - indexed for MEDLINE]

☐ 62: [Gupta A, Gupta S, Tiwary AK.](#)

[Related Articles, Links](#)



Spermicidal efficacy of H₂-receptor antagonists and potentiation with 2', 4'-dichlorobenzamil hydrochloride: role of intrasperm Ca²⁺.

Contraception. 2003 Jul;68(1):61-4.

PMID: 12878289 [PubMed - indexed for MEDLINE]

☐ 63: [Kiang JG, McClain DE, Warke VG, Krishnan S, Tsokos GC.](#)

[Related Articles, Links](#)



Constitutive NO synthase regulates the Na⁺/Ca²⁺ exchanger in human T cells: role of [Ca²⁺]_i and tyrosine phosphorylation.

J Cell Biochem. 2003 Aug 1;89(5):1030-43.

PMID: 12874836 [PubMed - indexed for MEDLINE]

☐ 64: [Doggrell SA, Hancox JC.](#)

[Related Articles, Links](#)



Is timing everything? Therapeutic potential of modulators of cardiac Na⁺ (+) transporters.

Expert Opin Investig Drugs. 2003 Jul;12(7):1123-42. Review.

PMID: 12831348 [PubMed - indexed for MEDLINE]

☐ 65: [Kawano S, Otsu K, Shoji S, Yamagata K, Hiraoka M.](#)

[Related Articles, Links](#)



Ca²⁺ oscillations regulated by Na⁺-Ca²⁺ exchanger and plasma membrane Ca²⁺ pump induce fluctuations of membrane currents and potentials in human mesenchymal stem cells.

Cell Calcium. 2003 Aug;34(2):145-56.

PMID: 12810056 [PubMed - indexed for MEDLINE]

☐ 66: [Reddy HK, Wasson S, Koshy SK, Komatireddy R.](#)

[Related Articles, Links](#)



Structural correlates of electrical remodeling in ventricular hypertrophy.

Cardiovasc Res. 2003 Jun 1;58(3):495-7. No abstract available.

PMID: 12798420 [PubMed - indexed for MEDLINE]

☐ 67: [Moreau R, Daoud G, Masse A, Simoneau L, Lafond J.](#)

[Related Articles, Links](#)



Expression and role of calcium-ATPase pump and sodium-calcium exchanger in differentiated trophoblasts from human term placenta.

Mol Reprod Dev. 2003 Jul;65(3):283-8.

PMID: 12784250 [PubMed - indexed for MEDLINE]

☐ 68: [Blank ME, Ehmke H.](#)










[Related Articles, Links](#)





















Aquaporin-1 and HCO₃⁻-Cl⁻ transporter-mediated transport of CO₂ across the human erythrocyte membrane.








J Physiol. 2003 Jul 15;550(Pt 2):419-29. Epub 2003 May 16.

PMID: 12754312 [PubMed - indexed for MEDLINE]

- ☐ **69:** [Quednau BD, Nicoll DA, Philipson KD.](#) Related Articles, Links
 The sodium/calcium exchanger family-SLC8.
Pflugers Arch. 2004 Feb;447(5):543-8. Epub 2003 May 7. Review.
PMID: 12734757 [PubMed - indexed for MEDLINE]
- ☐ **70:** [Wald FA, Figueroa Y, Oriolo AS, Salas PJ.](#) Related Articles, Links
 Membrane repolarization is delayed in proximal tubules after ischemia-reperfusion: possible role of microtubule-organizing centers.
Am J Physiol Renal Physiol. 2003 Aug;285(2):F230-40. Epub 2003 Apr 22.
PMID: 12709392 [PubMed - indexed for MEDLINE]
- ☐ **71:** [Kang K, Bauer PJ, Kinjo TG, Szerencsei RT, Bonigk W, Winkfein RJ, Schnetkamp PP.](#) Related Articles, Links
 Assembly of retinal rod or cone Na(+)/Ca(2+)-K(+) exchanger oligomers with cGMP-gated channel subunits as probed with heterologously expressed cDNAs.
Biochemistry. 2003 Apr 22;42(15):4593-600.
PMID: 12693957 [PubMed - indexed for MEDLINE]
- ☐ **72:** [Bolli R.](#) Related Articles, Links
 The role of sodium-hydrogen ion exchange in patients undergoing coronary artery bypass grafting.
J Card Surg. 2003 Jan-Feb;18 Suppl 1:21-6. Review.
PMID: 12691376 [PubMed - indexed for MEDLINE]
- ☐ **73:** [Schillinger W, Ohler A, Emami S, Muller F, Christians C, Janssen PM, Kogler H, Teucher N, Pieske B, Seidler T, Hasenfuss G.](#) Related Articles, Links
 The functional effect of adenoviral Na⁺/Ca²⁺ exchanger overexpression in rabbit myocytes depends on the activity of the Na⁺/K⁺-ATPase.
Cardiovasc Res. 2003 Mar 15;57(4):996-1003.
PMID: 12650877 [PubMed - indexed for MEDLINE]
- ☐ **74:** [Weisser-Thomas J, Piacentino V 3rd, Gaughan JP, Margulies K, Houser SR.](#) Related Articles, Links
 Calcium entry via Na/Ca exchange during the action potential directly contributes to contraction of failing human ventricular myocytes.
Cardiovasc Res. 2003 Mar 15;57(4):974-85.
PMID: 12650875 [PubMed - indexed for MEDLINE]
- ☐ **75:** [Allen DG, Xiao XH.](#) Related Articles, Links
 Role of the cardiac Na⁺/H⁺ exchanger during ischemia and reperfusion.
Cardiovasc Res. 2003 Mar 15;57(4):934-41. Review.
PMID: 12650871 [PubMed - indexed for MEDLINE]
- ☐ **76:** [Schillinger W, Fiolet JW, Schlotthauer K, Hasenfuss G.](#) Related Articles, Links
 Relevance of Na⁺-Ca²⁺ exchange in heart failure.
Cardiovasc Res. 2003 Mar 15;57(4):921-33. Review. No abstract available.
PMID: 12650870 [PubMed - indexed for MEDLINE]
- ☐ **77:** [He LP, Cleemann L, Soldatov NM, Morad M.](#) Related Articles, Links
 Molecular determinants of cAMP-mediated regulation of the Na⁺-Ca²⁺ exchanger expressed in human cell lines.
J Physiol. 2003 May 1;548(Pt 3):677-89. Epub 2003 Mar 7.
PMID: 12626672 [PubMed - indexed for MEDLINE]

- ☐ **78:** [Piper HM, Meuter K, Schafer C.](#) Related Articles, Links
 Cellular mechanisms of ischemia-reperfusion injury.
Ann Thorac Surg. 2003 Feb;75(2):S644-8. Review.
PMID: 12607706 [PubMed - indexed for MEDLINE]
- ☐ **79:** [Muller-Ehmsen J, Nickel J, Zobel C, Hirsch I, Bolck B, Brixius K, Schwinger RH.](#) Related Articles, Links
 Longer term effects of ouabain on the contractility of rat isolated cardiomyocytes and on the expression of Ca and Na regulating proteins.
Basic Res Cardiol. 2003 Mar;98(2):90-6.
PMID: 12607130 [PubMed - indexed for MEDLINE]
- ☐ **80:** [Piacentino V 3rd, Weber CR, Chen X, Weisser-Thomas J, Margulies KB, Bers DM, Houser SR.](#) Related Articles, Links
 Cellular basis of abnormal calcium transients of failing human ventricular myocytes.
Circ Res. 2003 Apr 4;92(6):651-8. Epub 2003 Feb 20.
PMID: 12600875 [PubMed - indexed for MEDLINE]
- ☐ **81:** [Pogwizd SM.](#) Related Articles, Links
 Clinical potential of sodium-calcium exchanger inhibitors as antiarrhythmic agents.
Drugs. 2003;63(5):439-52. Review.
PMID: 12600224 [PubMed - indexed for MEDLINE]
- ☐ **82:** [Kinjo TG, Szerencsei RT, Winkfein RJ, Kang K, Schnetkamp PP.](#) Related Articles, Links
 Topology of the retinal cone NCKX2 Na/Ca-K exchanger.
Biochemistry. 2003 Mar 4;42(8):2485-91.
PMID: 12600216 [PubMed - indexed for MEDLINE]
- ☐ **83:** [Prinsen CF, Cooper CB, Szerencsei RT, Murthy SK, Demetrick DJ, Schnetkamp PP.](#) Related Articles, Links
 The retinal rod and cone Na⁺/Ca²⁺-K⁺ exchangers.
Adv Exp Med Biol. 2002;514:237-51. Review.
PMID: 12596925 [PubMed - indexed for MEDLINE]
- ☐ **84:** [Lakatta EG, Maltsev VA, Bogdanov KY, Stern MD, Vinogradova TM.](#) Related Articles, Links
 Cyclic variation of intracellular calcium: a critical factor for cardiac pacemaker cell dominance.
Circ Res. 2003 Feb 21;92(3):e45-50. Review.
PMID: 12595348 [PubMed - indexed for MEDLINE]
- ☐ **85:** [Mohler PJ, Schott JJ, Gramolini AO, Dilly KW, Guatimosim S, duBell WH, Song LS, Hauragne K, Kyndt F, Ali ME, Rogers TB, Lederer WJ, Escande D, Le Marec H, Bennett V.](#) Related Articles, Links
 Ankyrin-B mutation causes type 4 long-QT cardiac arrhythmia and sudden cardiac death.
Nature. 2003 Feb 6;421(6923):634-9.
PMID: 12571597 [PubMed - indexed for MEDLINE]
- ☐ **86:** [Nattel S.](#) Related Articles, Links
 Human genetics: Lost anchors cost lives.
Nature. 2003 Feb 6;421(6923):587, 589-90. No abstract available.
PMID: 12571577 [PubMed - indexed for MEDLINE]

- ☐ **87:** [Gabellini N, Bortoluzzi S, Danieli GA, Carafoli E.](#) Related Articles, Links
 Control of the Na⁺/Ca²⁺ exchanger 3 promoter by cyclic adenosine monophosphate and Ca²⁺ in differentiating neurons.
J Neurochem. 2003 Jan;84(2):282-93.
PMID: 12558991 [PubMed - indexed for MEDLINE]
- ☐ **88:** [Del Monte F, Johnson CM, Stepanek AC, Doye AA, Gwathmey JK.](#) Related Articles, Links
 Defects in calcium control.
J Card Fail. 2002 Dec;8(6 Suppl):S421-31.
PMID: 12555155 [PubMed - indexed for MEDLINE]
- ☐ **89:** [Abramov AY, Duchen MR.](#) Related Articles, Links
 Actions of ionomycin, 4-BrA23187 and a novel electrogenic Ca²⁺ ionophore on mitochondria in intact cells.
Cell Calcium. 2003 Feb;33(2):101-12.
PMID: 12531186 [PubMed - indexed for MEDLINE]
- ☐ **90:** [Winkfein RJ, Szerencsei RT, Kinjo TG, Kang K, Perizzolo M, Eisner L, Schnetkamp PP.](#) Related Articles, Links
 Scanning mutagenesis of the alpha repeats and of the transmembrane acidic residues of the human retinal cone Na/Ca-K exchanger.
Biochemistry. 2003 Jan 21;42(2):543-52.
PMID: 12525183 [PubMed - indexed for MEDLINE]
- ☐ **91:** [del Monte F, Hajjar RJ.](#) Related Articles, Links
 Targeting calcium cycling proteins in heart failure through gene transfer.
J Physiol. 2003 Jan 1;546(Pt 1):49-61. Review.
PMID: 12509478 [PubMed - indexed for MEDLINE]
- ☐ **92:** [Moreau R, Simoneau L, Lafond J.](#) Related Articles, Links
 Calcium fluxes in human trophoblast (BeWo) cells: calcium channels, calcium-ATPase, and sodium-calcium exchanger expression.
Mol Reprod Dev. 2003 Feb;64(2):189-98.
PMID: 12506351 [PubMed - indexed for MEDLINE]
- ☐ **93:** [Terracciano C.](#) Related Articles, Links
 Functional consequences of Na/Ca exchanger overexpression in cardiac myocytes.
Ann N Y Acad Sci. 2002 Nov;976:520-7.
PMID: 12502606 [PubMed - indexed for MEDLINE]
- ☐ **94:** [Bers DM, Weber CR.](#) Related Articles, Links
 Na/Ca exchange function in intact ventricular myocytes.
Ann N Y Acad Sci. 2002 Nov;976:500-12.
PMID: 12502604 [PubMed - indexed for MEDLINE]
- ☐ **95:** [Weber CR, Piacentino V 3rd, Margulies KB, Bers DM, Houser SR.](#) Related Articles, Links
 Calcium influx via I(NCX) is favored in failing human ventricular myocytes.
Ann N Y Acad Sci. 2002 Nov;976:478-9. No abstract available.
PMID: 12502599 [PubMed - indexed for MEDLINE]
- ☐ **96:** [Piacentino V 3rd, Margulies KB, Houser SR.](#) Related Articles, Links

-  Ca influx via the Na/Ca exchanger maintains sarcoplasmic reticulum Ca content in failing human myocytes.
Ann N Y Acad Sci. 2002 Nov;976:476-7. No abstract available.
PMID: 12502598 [PubMed - indexed for MEDLINE]
- ☐ **97:** [Piacentino V 3rd](#), [Weber CR](#), [Gaughan JP](#), [Margulies KB](#), [Bers DM](#), [Houser SR](#). Related Articles, Links
Modulation of contractility in failing human myocytes by reverse-mode Na/Ca exchange.
Ann N Y Acad Sci. 2002 Nov;976:466-71. Review.
PMID: 12502596 [PubMed - indexed for MEDLINE]
- ☐ **98:** [Sipido KR](#), [Volders PG](#), [Schoenmakers M](#), [De Groot SH](#), [Verdonck F](#), [Vos MA](#). Related Articles, Links
Role of the Na/Ca exchanger in arrhythmias in compensated hypertrophy.
Ann N Y Acad Sci. 2002 Nov;976:438-45. Review.
PMID: 12502593 [PubMed - indexed for MEDLINE]
- ☐ **99:** [Murphy E](#), [Cross HR](#), [Steenbergen C](#). Related Articles, Links
 Is Na/Ca exchange during ischemia and reperfusion beneficial or detrimental?
Ann N Y Acad Sci. 2002 Nov;976:421-30. Review.
PMID: 12502591 [PubMed - indexed for MEDLINE]
- ☐ **100:** [Tortiglione A](#), [Pignataro G](#), [Minale M](#), [Secondo A](#), [Scorziello A](#), [Di Renzo GF](#), [Amoroso S](#), [Caliendo G](#), [Santagada V](#), [Annunziato L](#). Related Articles, Links
 Na⁺/Ca²⁺ exchanger in Na⁺ efflux-Ca²⁺ influx mode of operation exerts a neuroprotective role in cellular models of in vitro anoxia and in vivo cerebral ischemia.
Ann N Y Acad Sci. 2002 Nov;976:408-12. No abstract available.
PMID: 12502588 [PubMed - indexed for MEDLINE]
- ☐ **101:** [Lytton J](#), [Li XF](#), [Dong H](#), [Kraev A](#). Related Articles, Links
 K⁺-dependent Na⁺/Ca²⁺ exchangers in the brain.
Ann N Y Acad Sci. 2002 Nov;976:382-93.
PMID: 12502585 [PubMed - indexed for MEDLINE]
- ☐ **102:** [Bose R](#), [Li Y](#), [Roberts D](#). Related Articles, Links
 Na⁺/Ca²⁺ exchange in activated and nonactivated human platelets.
Ann N Y Acad Sci. 2002 Nov;976:350-3. No abstract available.
PMID: 12502580 [PubMed - indexed for MEDLINE]
- ☐ **103:** [Roberts DE](#), [Bose R](#). Related Articles, Links
 Reverse mode Na⁺/Ca²⁺ exchange in the collagen activation of human platelets.
Ann N Y Acad Sci. 2002 Nov;976:345-9. No abstract available.
PMID: 12502579 [PubMed - indexed for MEDLINE]
- ☐ **104:** [Gabellini N](#), [Bortoluzzi S](#), [Danieli GA](#), [Carafoli E](#). Related Articles, Links
 The gene promoter of human Na⁺/Ca²⁺ exchanger isoform 3 (SLC8A3) is controlled by cAMP and calcium.
Ann N Y Acad Sci. 2002 Nov;976:282-4. No abstract available.
PMID: 12502570 [PubMed - indexed for MEDLINE]
- [Jordan MC](#), [Quednau BD](#), [Roos KP](#), [Ross RS](#), [Philipson KD](#). Related Articles, Links

☐ **105:** [Nicholas SB.](#)



Cyclosporin A regulates sodium-calcium exchanger (NCX1) gene expression in vitro and cardiac hypertrophy in NCX1 transgenic mice. *Ann N Y Acad Sci.* 2002 Nov;976:259-67. PMID: 12502568 [PubMed - indexed for MEDLINE]

☐ **106:** [Schulze DH, Polumuri SK, Gille T, Ruknudin A.](#)

[Related Articles](#), [Links](#)



Functional regulation of alternatively spliced Na⁺/Ca²⁺ exchanger (NCX1) isoforms. *Ann N Y Acad Sci.* 2002 Nov;976:187-96. Review. PMID: 12502560 [PubMed - indexed for MEDLINE]

☐ **107:** [Rahamimoff H, Ren X, Kimchi-Sarfaty C, Ambudkar S, Kasir J.](#)

[Related Articles](#), [Links](#)



NCX1 surface expression: a tool to identify structural elements of functional importance. *Ann N Y Acad Sci.* 2002 Nov;976:176-86. PMID: 12502559 [PubMed - indexed for MEDLINE]

☐ **108:** [Dong H, Dunn J, Lytton J.](#)

[Related Articles](#), [Links](#)



Electrophysiological studies of the cloned rat cardiac NCX1.1 in transfected HEK cells: a focus on the stoichiometry. *Ann N Y Acad Sci.* 2002 Nov;976:159-65. No abstract available. PMID: 12502557 [PubMed - indexed for MEDLINE]

☐ **109:** [Lytton J, Dong H.](#)

[Related Articles](#), [Links](#)



Rat heart NCX1.1 stoichiometry measured in a transfected cell system. *Ann N Y Acad Sci.* 2002 Nov;976:137-41. PMID: 12502552 [PubMed - indexed for MEDLINE]

☐ **110:** [Yoo SS, Leach S, Lytton J.](#)

[Related Articles](#), [Links](#)



Studies on the oligomeric state of the sodium/calcium + potassium exchanger NCKX2. *Ann N Y Acad Sci.* 2002 Nov;976:94-6. No abstract available. PMID: 12502543 [PubMed - indexed for MEDLINE]

☐ **111:** [Cai X, Zhang K, Lytton J.](#)

[Related Articles](#), [Links](#)



Topological studies of the rat brain K⁺-dependent Na⁺/Ca²⁺ exchanger NCKX2. *Ann N Y Acad Sci.* 2002 Nov;976:90-3. No abstract available. PMID: 12502542 [PubMed - indexed for MEDLINE]

☐ **112:** [Van Eylen F, Kamagate A, Herchuelz A.](#)

[Related Articles](#), [Links](#)












Characterization and functional activity of a truncated Na/Ca exchange isoform resulting from a new splicing pattern of NCX1. *Ann N Y Acad Sci.* 2002 Nov;976:81-4. No abstract available. PMID: 12502539 [PubMed - indexed for MEDLINE]


☐ **113:** [Mejia-Elizondo R, Espinosa-Tanguma R, Saavedra-Alanis VM.](#)

[Related Articles](#), [Links](#)




Molecular identification of the NCX isoform expressed in tracheal smooth muscle of guinea pig. *Ann N Y Acad Sci.* 2002 Nov;976:73-6. No abstract available. PMID: 12502537 [PubMed - indexed for MEDLINE]


- ☐ **114:** [Kraev A, MacLennan D.](#) Related Articles, Links
 Toward comparative genomics of calcium transporters.
Ann N Y Acad Sci. 2002 Nov;976:53-9. Review. No abstract available.
PMID: 12502533 [PubMed - indexed for MEDLINE]
- ☐ **115:** [Szerencsei RT, Winkfein RJ, Cooper CB, Prinsen C, Kinjo TG, Kang K, Schnetkamp PP.](#) Related Articles, Links
 The Na/Ca-K exchanger gene family.
Ann N Y Acad Sci. 2002 Nov;976:41-52. Review.
PMID: 12502532 [PubMed - indexed for MEDLINE]
- ☐ **116:** [Bers DM, Pogwizd SM, Schlotthauer K.](#) Related Articles, Links
 Upregulated Na/Ca exchange is involved in both contractile dysfunction and arrhythmogenesis in heart failure.
Basic Res Cardiol. 2002;97 Suppl 1:I36-42. Review.
PMID: 12479232 [PubMed - indexed for MEDLINE]
- ☐ **117:** [Reuter H, Philipson KD.](#) Related Articles, Links
 Sodium-calcium exchanger overexpression in the heart--insights from a transgenic mouse model.
Basic Res Cardiol. 2002;97 Suppl 1:I31-5. Review.
PMID: 12479231 [PubMed - indexed for MEDLINE]
- ☐ **118:** [McDonough AA, Velotta JB, Schwinger RH, Philipson KD, Farley RA.](#) Related Articles, Links
 The cardiac sodium pump: structure and function.
Basic Res Cardiol. 2002;97 Suppl 1:I19-24. Review.
PMID: 12479229 [PubMed - indexed for MEDLINE]
- ☐ **119:** [Powis DA, Marley PD.](#) Related Articles, Links
 Ions, channels, and receptors.
Ann N Y Acad Sci. 2002 Oct;971:95-9. Review.
PMID: 12438098 [PubMed - indexed for MEDLINE]
- ☐ **120:** [Gabellini N, Bortoluzzi S, Danieli GA, Carafoli E.](#) Related Articles, Links
 The human SLC8A3 gene and the tissue-specific Na⁺/Ca²⁺ exchanger 3 isoforms.
Gene. 2002 Sep 18;298(1):1-7.
PMID: 12406570 [PubMed - indexed for MEDLINE]
- ☐ **121:** [Saksena S, Ammar MS, Tyagi S, Elsharydah A, Gill RK, Ramaswamy K, Dudeja PK.](#) Related Articles, Links
 Mechanisms of calcium transport in human colonic basolateral membrane vesicles.
Dig Dis Sci. 2002 Oct;47(10):2306-15.
PMID: 12395904 [PubMed - indexed for MEDLINE]
- ☐ **122:** [Petrova R, Yamamoto Y, Muraki K, Yonekura H, Sakurai S, Watanabe T, Li H, Takeuchi M, Makita Z, Kato I, Takasawa S, Okamoto H, Imaizumi Y, Yamamoto H.](#) Related Articles, Links
 Advanced glycation endproduct-induced calcium handling impairment in mouse cardiac myocytes.
J Mol Cell Cardiol. 2002 Oct;34(10):1425-31.
PMID: 12393002 [PubMed - indexed for MEDLINE]
- ☐ **123:** [Fink K, Meder WP, Clusmann H, Gothert M.](#) Related Articles, Links

-  Ca²⁺ entry via P/Q-type Ca²⁺ channels and the Na⁺/Ca²⁺ exchanger in rat and human neocortical synaptosomes.
Naunyn Schmiedebergs Arch Pharmacol. 2002 Nov;366(5):458-63. Epub 2002 Sep 6.
PMID: 12382075 [PubMed - indexed for MEDLINE]


☐ **124:** [Li XF, Kraev AS, Lytton J.](#) [Related Articles](#), [Links](#)

-  Molecular cloning of a fourth member of the potassium-dependent sodium-calcium exchanger gene family, NCKX4.
J Biol Chem. 2002 Dec 13;277(50):48410-7. Epub 2002 Oct 11.
PMID: 12379639 [PubMed - indexed for MEDLINE]


☐ **125:** [Cai X, Zhang K, Lytton J.](#) [Related Articles](#), [Links](#)

-  A novel topology and redox regulation of the rat brain K⁺-dependent Na⁺/Ca²⁺ exchanger, NCKX2.
J Biol Chem. 2002 Dec 13;277(50):48923-30. Epub 2002 Oct 10.
PMID: 12377762 [PubMed - indexed for MEDLINE]


☐ **126:** [Chu SL, Zhu DL, Xiong MM, Wang GL, Zhang WZ, Zhou HF, Shen D, Gao PJ, Zhan YM, Jin L.](#) [Related Articles](#), [Links](#)

-  Linkage analysis of twelve candidate gene loci regulating water and sodium metabolism and membrane ion transport in essential hypertension.
Hypertens Res. 2002 Jul;25(4):635-9.
PMID: 12358153 [PubMed - indexed for MEDLINE]


☐ **127:** [Kiedrowski L, Czyz A, Li XF, Lytton J.](#) [Related Articles](#), [Links](#)

-  Preferential expression of plasmalemmal K-dependent Na⁺/Ca²⁺ exchangers in neurons versus astrocytes.
Neuroreport. 2002 Aug 27;13(12):1529-32.
PMID: 12218699 [PubMed - indexed for MEDLINE]


☐ **128:** [Deval E, Levitsky DO, Marchand E, Cantereau A, Raymond G, Cognard C.](#) [Related Articles](#), [Links](#)

-  Na⁺/Ca²⁺ exchange in human myotubes: intracellular calcium rises in response to external sodium depletion are enhanced in DMD.
Neuromuscul Disord. 2002 Oct;12(7-8):665-73.
PMID: 12207936 [PubMed - indexed for MEDLINE]


☐ **129:** [Lee SH, Kim MH, Park KH, Earm YE, Ho WK.](#) [Related Articles](#), [Links](#)









-  K⁺-dependent Na⁺/Ca²⁺ exchange is a major Ca²⁺ clearance mechanism in axon terminals of rat neurohypophysis.
J Neurosci. 2002 Aug 15;22(16):6891-9.
PMID: 12177187 [PubMed - indexed for MEDLINE]

☐ **130:** [Dillmann WH.](#) [Related Articles](#), [Links](#)

-  Cellular action of thyroid hormone on the heart.
Thyroid. 2002 Jun;12(6):447-52. Review.
PMID: 12165105 [PubMed - indexed for MEDLINE]

☐ **131:** [Dunn J, Elias CL, Le HD, Omelchenko A, Hryshko LV, Lytton J.](#) [Related Articles](#), [Links](#)

-  The molecular determinants of ionic regulatory differences between brain and kidney Na⁺/Ca²⁺ exchanger (NCX1) isoforms.
J Biol Chem. 2002 Sep 13;277(37):33957-62. Epub 2002 Jul 12.
PMID: 12118014 [PubMed - indexed for MEDLINE]

- ☐ **132:** [Muller JG, Thompson JT, Edmonson AM, Rackley MS, Kasahara H, Izumo S, McQuinn TC, Menick DR, O'Brien TX.](#) [Related Articles, Links](#)
 Differential regulation of the cardiac sodium calcium exchanger promoter in adult and neonatal cardiomyocytes by Nkx2.5 and serum response factor.
J Mol Cell Cardiol. 2002 Jul;34(7):807-21.
PMID: 12099720 [PubMed - indexed for MEDLINE]
- ☐ **133:** [Bautista DM, Hoth M, Lewis RS.](#) [Related Articles, Links](#)
 Enhancement of calcium signalling dynamics and stability by delayed modulation of the plasma-membrane calcium-ATPase in human T cells.
J Physiol. 2002 Jun 15;541(Pt 3):877-94.
PMID: 12068047 [PubMed - indexed for MEDLINE]
- ☐ **134:** [Mizuno S, Demura Y, Ameshima S, Okamura S, Miyamori I, Ishizaki T.](#) [Related Articles, Links](#)
 Alkalosis stimulates endothelial nitric oxide synthase in cultured human pulmonary arterial endothelial cells.
Am J Physiol Lung Cell Mol Physiol. 2002 Jul;283(1):L113-9.
PMID: 12060567 [PubMed - indexed for MEDLINE]
- ☐ **135:** [Cullinane AB, Coca-Prados M, Harvey BJ.](#) [Related Articles, Links](#)
 Extracellular ATP effects on calcium signaling in cultured human non-pigmented ciliary body epithelium.
Curr Eye Res. 2001 Dec;23(6):448-54.
PMID: 12045895 [PubMed - indexed for MEDLINE]
- ☐ **136:** [Sharon D, Yamamoto H, McGee TL, Rabe V, Szerencsei RT, Winkfein RJ, Prinsen CF, Barnes CS, Andreasson S, Fishman GA, Schnetkamp PP, Berson EL, Dryja TP.](#) [Related Articles, Links](#)
 Mutated alleles of the rod and cone Na-Ca+K-exchanger genes in patients with retinal diseases.
Invest Ophthalmol Vis Sci. 2002 Jun;43(6):1971-9.
PMID: 12037007 [PubMed - indexed for MEDLINE]
- ☐ **137:** [Diaz-Horta O, Kamagate A, Herchuelz A, Van Eylen F.](#) [Related Articles, Links](#)
 Na/Ca exchanger overexpression induces endoplasmic reticulum-related apoptosis and caspase-12 activation in insulin-releasing BRIN-BD11 cells.
Diabetes. 2002 Jun;51(6):1815-24.
PMID: 12031969 [PubMed - indexed for MEDLINE]
- ☐ **138:** [Su YH, Vacquier VD.](#) [Related Articles, Links](#)
 A flagellar K(+)-dependent Na(+)/Ca(2+) exchanger keeps Ca(2+) low in sea urchin spermatozoa.
Proc Natl Acad Sci U S A. 2002 May 14;99(10):6743-8.
PMID: 12011436 [PubMed - indexed for MEDLINE]
- ☐ **139:** [Thayer SA, Usachev YM, Pottorf WJ.](#) [Related Articles, Links](#)
 Modulating Ca²⁺ clearance from neurons.
Front Biosci. 2002 May 1;7:d1255-79. Review.
PMID: 11991858 [PubMed - indexed for MEDLINE]
- ☐ **140:** [Ranu HK, Terracciano CM, Davia K, Bernobich E, Chaudhri B, Robinson SE, Bin Kang Z, Hajjar RJ, MacLeod KT, Harding](#) [Related Articles, Links](#)

SE.



Effects of Na(+)/Ca(2+)-exchanger overexpression on excitation-contraction coupling in adult rabbit ventricular myocytes.

J Mol Cell Cardiol. 2002 Apr;34(4):389-400.

PMID: 11991729 [PubMed - indexed for MEDLINE]

☐ **141:** Bers DM.

Related Articles, Links



Cardiac Na/Ca exchange function in rabbit, mouse and man: what's the difference?

J Mol Cell Cardiol. 2002 Apr;34(4):369-73. No abstract available.

PMID: 11991726 [PubMed - indexed for MEDLINE]

☐ **142:** Sipido KR, Volders PG, Vos MA, Verdonck F.

Related Articles, Links



Altered Na/Ca exchange activity in cardiac hypertrophy and heart failure: a new target for therapy?

Cardiovasc Res. 2002 Mar;53(4):782-805. Review.

PMID: 11922890 [PubMed - indexed for MEDLINE]

☐ **143:** Dong H, Dunn J, Lytton J.

Related Articles, Links



Stoichiometry of the Cardiac Na⁺/Ca²⁺ exchanger NCX1.1 measured in transfected HEK cells.

Biophys J. 2002 Apr;82(4):1943-52.

PMID: 11916852 [PubMed - indexed for MEDLINE]

☐ **144:** Billman GE.

Related Articles, Links



KB-R7943. Kanebo.

Curr Opin Investig Drugs. 2001 Dec;2(12):1740-5. Review.

PMID: 11892938 [PubMed - indexed for MEDLINE]

☐ **145:** Kiyosue T.

Related Articles, Links



Removal of intracellular Mg(2+) activates cardiac Na(+)/Ca(2+) exchanger.

Cardiovasc Res. 2002 Feb 1;53(2):290-1. No abstract available.

PMID: 11827677 [PubMed - indexed for MEDLINE]

☐ **146:** Van Eylen F, Horta OD, Barez A, Kamagate A, Flatt PR, Macianskiene R, Mubagwa K, Herchuelz A.

Related Articles, Links



Overexpression of the Na/Ca exchanger shapes stimulus-induced cytosolic Ca(2+) oscillations in insulin-producing BRIN-BD11 cells.

Diabetes. 2002 Feb;51(2):366-75.

PMID: 11812743 [PubMed - indexed for MEDLINE]

☐ **147:** Bose R, Li Y, Woo V.

Related Articles, Links



Sodium-calcium exchange in platelets of diabetics.

Proc West Pharmacol Soc. 2001;44:183-4. No abstract available.

PMID: 11793976 [PubMed - indexed for MEDLINE]

☐ **148:** Berna N, Arnould T, Remacle J, Michiels C.

Related Articles, Links



Hypoxia-induced increase in intracellular calcium concentration in endothelial cells: role of the Na(+)-glucose cotransporter.

J Cell Biochem. 2001;84(1):115-31.

PMID: 11746521 [PubMed - indexed for MEDLINE]

☐ **149:** Schotten U, Greiser M, Benke D, Buerkel K, Ehrenteidt B, Stellbrink C, Vazquez-Jimenez JF, Schoendube F, Hanrath P.

Related Articles, Links

Allessie M.



Atrial fibrillation-induced atrial contractile dysfunction: a tachycardiomyopathy of a different sort.

Cardiovasc Res. 2002 Jan;53(1):192-201.

PMID: 11744028 [PubMed - indexed for MEDLINE]

☐ **150:** Yamamura K, Tani M, Hasegawa H, Gen W.

[Related Articles](#), [Links](#)



Very low dose of the Na(+)/Ca(2+) exchange inhibitor, KB-R7943, protects ischemic reperfused aged Fischer 344 rat hearts: considerable strain difference in the sensitivity to KB-R7943.

Cardiovasc Res. 2001 Dec;52(3):397-406.

PMID: 11738056 [PubMed - indexed for MEDLINE]

☐ **151:** Zhu L, Yu Y, Chua BH, Ho YS, Kuo TH.

[Related Articles](#), [Links](#)



Regulation of sodium-calcium exchange and mitochondrial energetics by Bcl-2 in the heart of transgenic mice.

J Mol Cell Cardiol. 2001 Dec;33(12):2135-44.

PMID: 11735260 [PubMed - indexed for MEDLINE]

☐ **152:** Van Wagoner DR, Bond M.

[Related Articles](#), [Links](#)



Reperfusion arrhythmias: new insights into the role of the Na(+)/Ca(2+) exchanger.

J Mol Cell Cardiol. 2001 Dec;33(12):2071-4. No abstract available.

PMID: 11735253 [PubMed - indexed for MEDLINE]

☐ **153:** Verkerk AO, Veldkamp MW, Baartscheer A, Schumacher CA,

[Related Articles](#), [Links](#)

Klopping C, van Ginneken AC, Ravesloot JH.



Ionic mechanism of delayed afterdepolarizations in ventricular cells isolated from human end-stage failing hearts.

Circulation. 2001 Nov 27;104(22):2728-33.

PMID: 11723027 [PubMed - indexed for MEDLINE]

☐ **154:** Campean V, Kricke J, Ellison D, Luft FC, Bachmann S.

[Related Articles](#), [Links](#)



Localization of thiazide-sensitive Na(+)-Cl(-) cotransport and associated gene products in mouse DCT.

Am J Physiol Renal Physiol. 2001 Dec;281(6):F1028-35.

PMID: 11704553 [PubMed - indexed for MEDLINE]

☐ **155:** Loffing J, Loffing-Cueni D, Valderrabano V, Klausli L, Hebert

[Related Articles](#), [Links](#)

SC, Rossier BC, Hoenderop JG, Bindels RJ, Kaissling B.



Distribution of transcellular calcium and sodium transport pathways along mouse distal nephron.

Am J Physiol Renal Physiol. 2001 Dec;281(6):F1021-7.

PMID: 11704552 [PubMed - indexed for MEDLINE]

☐ **156:** Kimchi-Sarfaty C, Kasir J, Ambudkar SV, Rahamimoff H.

[Related Articles](#), [Links](#)



Transport activity and surface expression of the Na⁺-Ca²⁺ exchanger NCX1 are inhibited by the immunosuppressive agent cyclosporin A and by the nonimmunosuppressive agent PSC833.









J Biol Chem. 2002 Jan 25;277(4):2505-10. Epub 2001 Nov 7.

PMID: 11700317 [PubMed - indexed for MEDLINE]

☐ **157:** McMillan DR, Kayes-Wandover KM, Richardson JA, White PC.


[Related Articles](#), [Links](#)

Very large G protein-coupled receptor-1, the largest known cell surface


-  protein, is highly expressed in the developing central nervous system.
J Biol Chem. 2002 Jan 4;277(1):785-92. Epub 2001 Oct 17.
PMID: 11606593 [PubMed - indexed for MEDLINE]
- ☐ **158:** Rogister F, Laeckmann D, Plasman P, Van Eylen F, Ghyoot M, Maggetto C, Liegeois J, Geczy J, Herchuelz A, Delarge J, Masereel B. [Related Articles](#), [Links](#)
Novel inhibitors of the sodium-calcium exchanger: benzene ring analogues of N-guanidino substituted amiloride derivatives.
Eur J Med Chem. 2001 Jul-Aug;36(7-8):597-614.
PMID: 11600230 [PubMed - indexed for MEDLINE]
-  ☐ **159:** Qiu Z, Chen J, Nicoll DA, Philipson KD. [Related Articles](#), [Links](#)
A disulfide bond is required for functional assembly of NCX1 from complementary fragments.
Biochem Biophys Res Commun. 2001 Oct 5;287(4):825-8.
PMID: 11573936 [PubMed - indexed for MEDLINE]
- ☐ **160:** Aleksandrova EA. [Related Articles](#), [Links](#)
 [Calcium-transporting systems and calcium regulation in cardiomyocytes]
Usp Fiziol Nauk. 2001 Jul-Sep;32(3):40-8. Review. Russian.
PMID: 11565424 [PubMed - indexed for MEDLINE]
- ☐ **161:** Takuma K. [Related Articles](#), [Links](#)
 [Delayed apoptosis and its regulation in astrocytes]
Yakugaku Zasshi. 2001 Sep;121(9):663-9. Review. Japanese.
PMID: 11558150 [PubMed - indexed for MEDLINE]
- ☐ **162:** [No authors listed] [Related Articles](#), [Links](#)
 Abstracts of the American Physiological Society Conferences. Cellular and Molecular Physiology of Sodium-Calcium Exchange, Banff, Alberta, Canada, October 10-14, 2001. Genome and Hormones: An Integrative Approach to Gender Differences in Physiology, Pittsburgh, Pennsylvania, USA, October 17-20, 2001.
Physiologist. 2001 Aug;44(4):219-86. No abstract available.
PMID: 11534550 [PubMed - indexed for MEDLINE]
- ☐ **163:** Kubo H, Margulies KB, Piacentino V 3rd, Gaughan JP, Houser SR. [Related Articles](#), [Links](#)
 Patients with end-stage congestive heart failure treated with beta-adrenergic receptor antagonists have improved ventricular myocyte calcium regulatory protein abundance.
Circulation. 2001 Aug 28;104(9):1012-8.
PMID: 11524394 [PubMed - indexed for MEDLINE]
- ☐ **164:** Radvakova I, Mirossay A, Mojzis J, Mirossay L. [Related Articles](#), [Links](#)
 The effect of 5'-(N,N-dimethyl)-amiloride on cytotoxic activity of doxorubicin and vincristine in CEM cell lines.
Physiol Res. 2001;50(3):283-7.
PMID: 11521739 [PubMed - indexed for MEDLINE]
- ☐ **165:** Van Eylen F, Kamagate A, Herchuelz A. [Related Articles](#), [Links](#)
 A new Na/Ca exchanger splicing pattern identified in situ leads to a

functionally active 70kDa NH(2)-terminal protein.
Cell Calcium. 2001 Sep;30(3):191-8.
PMID: 11508998 [PubMed - indexed for MEDLINE]


- ☐ **166:** [Conway SJ, Koushik SV.](#) Related Articles, Links

 Cardiac sodium-calcium exchanger: a double-edged sword.
Cardiovasc Res. 2001 Aug 1;51(2):194-7. Review. No abstract available.
PMID: 11470457 [PubMed - indexed for MEDLINE]


- ☐ **167:** [Balasubramanyam M, Balaji RA, Subashini B, Mohan V.](#) Related Articles, Links

 Evidence for mechanistic alterations of Ca²⁺ homeostasis in Type 2 diabetes mellitus.
Int J Exp Diabetes Res. 2001;1(4):275-87.
PMID: 11467418 [PubMed - indexed for MEDLINE]


- ☐ **168:** [Park SI, Park EJ, Kim NH, Baek WK, Lee YT, Lee CJ, Suh CK.](#) Related Articles, Links

 Hypoxia delays the intracellular Ca²⁺ clearance by Na⁺-Ca²⁺ exchanger in human adult cardiac myocytes.
Yonsei Med J. 2001 Jun;42(3):333-7.
PMID: 11456400 [PubMed - indexed for MEDLINE]


- ☐ **169:** [Lipsius SL, Huser J, Blatter LA.](#) Related Articles, Links

 Intracellular Ca²⁺ release sparks atrial pacemaker activity.
News Physiol Sci. 2001 Jun;16:101-6. Review.
PMID: 11443225 [PubMed - indexed for MEDLINE]


- ☐ **170:** [Houser SR, Piacentino V 3rd, Mattiello J, Weissner J, Gaughan JP.](#) Related Articles, Links

 Functional properties of failing human ventricular myocytes.
Trends Cardiovasc Med. 2000 Apr;10(3):101-7. Review.
PMID: 11427996 [PubMed - indexed for MEDLINE]


- ☐ **171:** [Lee VM, Halligan AW, Ng LL.](#) Related Articles, Links

 Leucocyte intracellular pH and Na⁺/H⁺ exchanger isoform-1 activity in postpartum women with pre-eclampsia.
BJOG. 2001 Jun;108(6):615-22.
PMID: 11426897 [PubMed - indexed for MEDLINE]

- ☐ **172:** [Kawamoto T, Kimura H, Kusumoto K, Fukumoto S, Shiraishi M, Watanabe T, Sawada H.](#) Related Articles, Links

 Potent and selective inhibition of the human Na⁺/H⁺ exchanger isoform NHE1 by a novel aminoguanidine derivative T-162559.
Eur J Pharmacol. 2001 May 18;420(1):1-8.
PMID: 11412833 [PubMed - indexed for MEDLINE]

- ☐ **173:** [Pogwizd SM, Schlotthauer K, Li L, Yuan W, Bers DM.](#) Related Articles, Links

 Arrhythmogenesis and contractile dysfunction in heart failure: Roles of sodium-calcium exchange, inward rectifier potassium current, and residual beta-adrenergic responsiveness.
Circ Res. 2001 Jun 8;88(11):1159-67.
PMID: 11397782 [PubMed - indexed for MEDLINE]

- ☐ **174:** [Adachi-Akahane S, Kurachi Y.](#) Related Articles, Links

New era for translational research in cardiac arrhythmias.



Circ Res. 2001 Jun 8;88(11):1095-6. No abstract available.
PMID: 11397771 [PubMed - indexed for MEDLINE]

☐ **175:** [Li F, Hayes JK, Wong KC.](#)

[Related Articles](#), [Links](#)



Gene therapy: a novel method for the treatment of myocardial ischemia and reperfusion injury--mini-review.
Acta Anaesthesiol Sin. 2000 Dec;38(4):207-15. Review.
PMID: 11392069 [PubMed - indexed for MEDLINE]

☐ **176:** [Morin D, Hauet T, Spedding M, Tillement J.](#)

[Related Articles](#), [Links](#)



Mitochondria as target for antiischemic drugs.
Adv Drug Deliv Rev. 2001 Jul 2;49(1-2):151-74. Review.
PMID: 11377809 [PubMed - indexed for MEDLINE]

☐ **177:** [Shigekawa M, Iwamoto T.](#)

[Related Articles](#), [Links](#)



Cardiac Na(+)-Ca(2+) exchange: molecular and pharmacological aspects.
Circ Res. 2001 May 11;88(9):864-76. Review.
PMID: 11348995 [PubMed - indexed for MEDLINE]

☐ **178:** [Muller-Ehmsen J, Wang J, Schwinger RH, McDonough AA.](#)

[Related Articles](#), [Links](#)



Region specific regulation of sodium pump isoform and Na,Ca-exchanger expression in the failing human heart--right atrium vs left ventricle.
Cell Mol Biol (Noisy-le-grand). 2001 Mar;47(2):373-81.
PMID: 11357898 [PubMed - indexed for MEDLINE]

☐ **179:** [Szerencsei RT, Prinsen CF, Schnetkamp PP.](#)

[Related Articles](#), [Links](#)



Stoichiometry of the retinal cone Na/Ca-K exchanger heterologously expressed in insect cells: comparison with the bovine heart Na/Ca exchanger.
Biochemistry. 2001 May 22;40(20):6009-15.
PMID: 11352736 [PubMed - indexed for MEDLINE]

☐ **180:** [Terracciano CM, MacLeod KT.](#)

[Related Articles](#), [Links](#)



Overexpression of the Na/Ca exchanger and reduced SERCa function.
Cardiovasc Res. 2001 Apr;50(1):167-9. No abstract available.
PMID: 11345943 [PubMed - indexed for MEDLINE]

☐ **181:** [Reddy PR, Patni A, Sharma A, Gupta S, Tiwary AK.](#)

[Related Articles](#), [Links](#)



Effect of 2',4'-dichlorobenzamil hydrochloride, a Na(+)-Ca(2+) exchange inhibitor, on human spermatozoa.
Eur J Pharmacol. 2001 Apr 20;418(1-2):153-5.
PMID: 11334878 [PubMed - indexed for MEDLINE]

☐ **182:** [Bhattacharjee AK, Nagashima T, Kondoh T, Tamaki N.](#)

[Related Articles](#), [Links](#)



The effects of the Na(+)/Ca(++) exchange blocker on osmotic blood-brain barrier disruption.
Brain Res. 2001 May 11;900(2):157-62.
PMID: 11334793 [PubMed - indexed for MEDLINE]

☐ **183:** [Kraev A, Quednau BD, Leach S, Li XF, Dong H, Winkfein R, Perizzolo M, Cai X, Yang R, Philipson KD, Lytton J.](#)

[Related Articles](#), [Links](#)

Molecular cloning of a third member of the potassium-dependent



sodium-calcium exchanger gene family, NCKX3.
J Biol Chem. 2001 Jun 22;276(25):23161-72. Epub 2001 Apr 9.
PMID: 11294880 [PubMed - indexed for MEDLINE]

☐ **184:** [Takano S, Kimura J, Ono T.](#)

[Related Articles](#), [Links](#)



Inhibition of aggregation of rabbit and human platelets induced by
adrenaline and 5-hydroxytryptamine by KB-R7943, a Na(+)/Ca(2+)
exchange inhibitor.
Br J Pharmacol. 2001 Apr;132(7):1383-8.
PMID: 11264230 [PubMed - indexed for MEDLINE]

☐ **185:** [Li Y, Woo V, Bose R.](#)

[Related Articles](#), [Links](#)



Platelet hyperactivity and abnormal Ca(2+) homeostasis in diabetes
mellitus.
Am J Physiol Heart Circ Physiol. 2001 Apr;280(4):H1480-9.
PMID: 11247757 [PubMed - indexed for MEDLINE]

☐ **186:** [Van Eylen F, Bollen A, Herchuelz A.](#)

[Related Articles](#), [Links](#)



NCX1 Na/Ca exchanger splice variants in pancreatic islet cells.
J Endocrinol. 2001 Mar;168(3):517-26.
PMID: 11241183 [PubMed - indexed for MEDLINE]

☐ **187:** [Kim JA, Kang YY, Lee YS.](#)

[Related Articles](#), [Links](#)



Activation of Na(+), K(+), Cl(-)-cotransport mediates intracellular Ca
(2+) increase and apoptosis induced by Pinacidil in HepG2 human
hepatoblastoma cells.
Biochem Biophys Res Commun. 2001 Feb 23;281(2):511-9.
PMID: 11181077 [PubMed - indexed for MEDLINE]

☐ **188:** [Gabellini N.](#)

[Related Articles](#), [Links](#)



A polymorphic GT repeat from the human cardiac Na+Ca2+ exchanger
intron 2 activates splicing.
Eur J Biochem. 2001 Feb;268(4):1076-83.
PMID: 11179974 [PubMed - indexed for MEDLINE]

☐ **189:** [Brown RE, Stevens DR, Haas HL.](#)

[Related Articles](#), [Links](#)



The physiology of brain histamine.
Prog Neurobiol. 2001 Apr;63(6):637-72. Review.
PMID: 11164999 [PubMed - indexed for MEDLINE]

☐ **190:** [Poon S, Leach S, Li XF, Tucker JE, Schnetkamp PP, Lytton J.](#)

[Related Articles](#), [Links](#)



Alternatively spliced isoforms of the rat eye sodium/calcium+potassium
exchanger NCKX1.
Am J Physiol Cell Physiol. 2000 Apr;278(4):C651-60.
PMID: 10751314 [PubMed - indexed for MEDLINE]

☐ **191:** [Ren X, Kasir J, Rahamimoff H.](#)


[Related Articles](#), [Links](#)




The transport activity of the Na+-Ca2+ exchanger NCX1 expressed in
HEK 293 cells is sensitive to covalent modification of intracellular
cysteine residues by sulfhydryl reagents.
J Biol Chem. 2001 Mar 23;276(12):9572-9. Epub 2000 Dec 27.
PMID: 11134012 [PubMed - indexed for MEDLINE]

☐ **192:** [Isenberg G.](#)


[Related Articles](#), [Links](#)

-  How can overexpression of Na(+),Ca(2+)-exchanger compensate the negative inotropic effects of downregulated SERCA?
Cardiovasc Res. 2001 Jan;49(1):1-6. Review. No abstract available.
PMID: 11121788 [PubMed - indexed for MEDLINE]


 **193:** [Nattel S.](#) Related Articles, Links

-  Acquired delayed rectifier channelopathies: how heart disease and antiarrhythmic drugs mimic potentially-lethal congenital cardiac disorders.
Cardiovasc Res. 2000 Nov;48(2):188-90. No abstract available.
PMID: 11054465 [PubMed - indexed for MEDLINE]


 **194:** [Qiu Z, Nicoll DA, Philipson KD.](#) Related Articles, Links


-  Helix packing of functionally important regions of the cardiac Na(+)-Ca(2+) exchanger.
J Biol Chem. 2001 Jan 5;276(1):194-9.
PMID: 11035002 [PubMed - indexed for MEDLINE]


 **195:** [Pogwizd SM.](#) Related Articles, Links


-  Increased Na(+)-Ca(2+) exchanger in the failing heart.
Circ Res. 2000 Oct 13;87(8):641-3. No abstract available.
PMID: 11029397 [PubMed - indexed for MEDLINE]


 **196:** [Sheng JZ, Prinsen CF, Clark RB, Giles WR, Schnetkamp PP.](#) Related Articles, Links

-  Na(+)-Ca(2+)-K(+) currents measured in insect cells transfected with the retinal cone or rod Na(+)-Ca(2+)-K(+) exchanger cDNA.
Biophys J. 2000 Oct;79(4):1945-53.
PMID: 11023899 [PubMed - indexed for MEDLINE]


 **197:** [Piper C, Bilger J, Henrichs EM, Wudel E, Schultheiss HP, Horstkotte D, Dörner A.](#) Related Articles, Links

-  [Is Na+Ca(2+) exchanger expression altered in the endomyocardium of patients with chronic heart valve diseases parallel to myocardial dysfunction?]
Z Kardiol. 2000 Aug;89(8):682-90. German.
PMID: 11013973 [PubMed - indexed for MEDLINE]


 **198:** [Schillinger W, Janssen PM, Emami S, Henderson SA, Ross RS, Teucher N, Zeitz O, Philipson KD, Prestle J, Hasenfuss G.](#) Related Articles, Links










-  Impaired contractile performance of cultured rabbit ventricular myocytes after adenoviral gene transfer of Na(+)-Ca(2+) exchanger.
Circ Res. 2000 Sep 29;87(7):581-7.
PMID: 11009563 [PubMed - indexed for MEDLINE]










 **199:** [Barry WH.](#) Related Articles, Links

-  Na(+)-Ca(2+) exchange in failing myocardium: friend or foe?
Circ Res. 2000 Sep 29;87(7):529-31. No abstract available.
PMID: 11009553 [PubMed - indexed for MEDLINE]

 **200:** [Kim JA, Kang YS, Lee SH, Lee YS.](#) Related Articles, Links

-  Inhibitors of Na+/Ca2+ exchanger prevent oxidant-induced intracellular Ca2+ increase and apoptosis in a human hepatoma cell line.
Free Radic Res. 2000 Sep;33(3):267-77.
PMID: 10993480 [PubMed - indexed for MEDLINE]

- ☐ **201:** [Stengl M, Pucelik P.](#) Related Articles, Links
 [Na⁺/Ca⁺ exchange: structure, mechanism, regulation and function]
Cesk Fysiol. 2000 May;49(2):73-90. Review. Czech.
PMID: 10953508 [PubMed - indexed for MEDLINE]
- ☐ **202:** [Schaffer SW, Lombardini JB, Azuma J.](#) Related Articles, Links
 Interaction between the actions of taurine and angiotensin II.
Amino Acids. 2000;18(4):305-18. Review.
PMID: 10949914 [PubMed - indexed for MEDLINE]
- ☐ **203:** [Burkhoff D, Holmes JW, Madigan J, Barbone A, Oz MC.](#) Related Articles, Links
 Left ventricular assist device-induced reverse ventricular remodeling.
Prog Cardiovasc Dis. 2000 Jul-Aug;43(1):19-26. Review.
PMID: 10935554 [PubMed - indexed for MEDLINE]
- ☐ **204:** [McDonald RL, Colyer J, Harrison SM.](#) Related Articles, Links
 Quantitative analysis of Na⁺-Ca²⁺ exchanger expression in guinea-pig heart.
Eur J Biochem. 2000 Aug;267(16):5142-8.
PMID: 10931198 [PubMed - indexed for MEDLINE]
- ☐ **205:** [Lundquist P, Lundgren T, Gritli-Linde A, Linde A.](#) Related Articles, Links
 Na⁺/Ca²⁺ exchanger isoforms of rat odontoblasts and osteoblasts.
Calcif Tissue Int. 2000 Jul;67(1):60-7.
PMID: 10908415 [PubMed - indexed for MEDLINE]
- ☐ **206:** [Adam-Vizi V.](#) Related Articles, Links
 [Neuroprotective effect of sodium channel blockers in ischemia: the pathomechanism of early ischemic dysfunction]
Orv Hetil. 2000 Jun 4;141(23):1279-86. Review. Hungarian.
PMID: 10905082 [PubMed - indexed for MEDLINE]
- ☐ **207:** [Wakimoto K, Kuro-O M, Yanaka N, Omori K, Komuro I, Imai Y, Nabeshima Y.](#) Related Articles, Links
 Isolation and characterization of Na⁺/Ca²⁺ exchanger gene and splicing isoforms in mice.
DNA Seq. 2000;11(1-2):75-81.
PMID: 10902911 [PubMed - indexed for MEDLINE]
- ☐ **208:** [Glendenning P, Ratajczak T, Dick IM, Prince RL.](#) Related Articles, Links
 Calcitriol upregulates expression and activity of the 1b isoform of the plasma membrane calcium pump in immortalized distal kidney tubular cells.
Arch Biochem Biophys. 2000 Aug 1;380(1):126-32.
PMID: 10900141 [PubMed - indexed for MEDLINE]
- ☐ **209:** [Piper C, Bilger J, Henrichs EM, Schultheiss HP, Horstkotte D, Doerner A.](#) Related Articles, Links
 Is myocardial Na⁺/Ca²⁺ exchanger transcription a marker for different stages of myocardial dysfunction? Quantitative polymerase chain reaction of the messenger RNA in endomyocardial biopsies of patients with heart failure.
J Am Coll Cardiol. 2000 Jul;36(1):233-41.
PMID: 10898440 [PubMed - indexed for MEDLINE]

- ☐ **210:** [Philipson KD, Nicoll DA.](#) Related Articles, Links
 Sodium-calcium exchange: a molecular perspective.
Annu Rev Physiol. 2000;62:111-33. Review.
PMID: 10845086 [PubMed - indexed for MEDLINE]
- ☐ **211:** [Nofer JR, Junker R, Seedorf U, Assmann G, Zidek W, Tepel M.](#) Related Articles, Links
 D609-phosphatidylcholine-specific phospholipase C inhibitor attenuates thapsigargin-induced sodium influx in human lymphocytes.
Cell Signal. 2000 May;12(5):289-96.
PMID: 10822169 [PubMed - indexed for MEDLINE]
- ☐ **212:** [Paltauf-Doburzynska J, Frieden M, Spitaler M, Graier WF.](#) Related Articles, Links
 Histamine-induced Ca^{2+} oscillations in a human endothelial cell line depend on transmembrane ion flux, ryanodine receptors and endoplasmic reticulum Ca^{2+} -ATPase.
J Physiol. 2000 May 1;524 Pt 3:701-13.
PMID: 10790152 [PubMed - indexed for MEDLINE]
- ☐ **213:** [Seiler EP, Guerini D, Guidi F, Carafoli E.](#) Related Articles, Links
 The N-terminal portion of the main cytosolic loop mediates K^{+} sensitivity in the retinal rod $\text{Na}^{+}/\text{Ca}^{2+}$ - K^{+} -exchanger.
Eur J Biochem. 2000 May;267(9):2461-72.
PMID: 10785365 [PubMed - indexed for MEDLINE]
- ☐ **214:** [Li L, Guerini D, Carafoli E.](#) Related Articles, Links
 Calcineurin controls the transcription of $\text{Na}^{+}/\text{Ca}^{2+}$ exchanger isoforms in developing cerebellar neurons.
J Biol Chem. 2000 Jul 7;275(27):20903-10.
PMID: 10767288 [PubMed - indexed for MEDLINE]
- ☐ **215:** [Nakamura H, Kawasaki Y, Arakawa N, Saeki M, Maeda S, Koyama Y, Baba A, Matsuda T.](#) Related Articles, Links
 The Na^{+} - Ca^{2+} exchange inhibitor KB-R7943 inhibits high K^{+} -induced increases in intracellular Ca^{2+} concentration and $[3\text{H}]$ noradrenaline release in the human neuroblastoma SH-SY5Y.
Neurochem Res. 2000 Mar;25(3):385-7.
PMID: 10761983 [PubMed - indexed for MEDLINE]
- ☐ **216:** [Qu Y, Ghatpande A, el-Sherif N, Boutjdir M.](#) Related Articles, Links
 Gene expression of $\text{Na}^{+}/\text{Ca}^{2+}$ exchanger during development in human heart.
Cardiovasc Res. 2000 Mar;45(4):866-73.
PMID: 10728412 [PubMed - indexed for MEDLINE]
- ☐ **217:** [Kurosawa M, Numazawa S, Tani Y, Yoshida T.](#) Related Articles, Links
 ERK signaling mediates the induction of inflammatory cytokines by bufalin in human monocytic cells.
Am J Physiol Cell Physiol. 2000 Mar;278(3):C500-8.
PMID: 10712238 [PubMed - indexed for MEDLINE]
- ☐ **218:** [Kiang JG, McClain DE.](#) Related Articles, Links
 N(omega)-nitro-L-arginine decreases resting cytosolic $[\text{Ca}^{2+}]$ and enhances heat stress-induced increase in cytosolic $[\text{Ca}^{2+}]$ in human

colon carcinoma T84 cells.
Chin J Physiol. 1999 Sep 30;42(3):153-9.
PMID: 10707889 [PubMed - indexed for MEDLINE]

☐ **219:** [Bell PD, Mashburn N, Unlap MT.](#)

[Related Articles, Links](#)



Renal sodium/calcium exchange; a vasodilator that is defective in salt-sensitive hypertension.

Acta Physiol Scand. 2000 Jan;168(1):209-14. Review.
PMID: 10691802 [PubMed - indexed for MEDLINE]

☐ **220:** [Prinsen CF, Szerencsei RT, Schnetkamp PP.](#)

[Related Articles, Links](#)



Molecular cloning and functional expression of the potassium-dependent sodium-calcium exchanger from human and chicken retinal cone photoreceptors.

J Neurosci. 2000 Feb 15;20(4):1424-34.
PMID: 10662833 [PubMed - indexed for MEDLINE]

☐ **221:** [McKiernan CJ, Friedlander M.](#)

[Related Articles, Links](#)



The retinal rod Na(+)/Ca(2+),K(+) exchanger contains a noncleaved signal sequence required for translocation of the N terminus.

J Biol Chem. 1999 Dec 31;274(53):38177-82.
PMID: 10608890 [PubMed - indexed for MEDLINE]

☐ **222:** [Lehnart SE, Schillinger W, Pieske B, Prestle J, Just H, Hasenfuss G.](#)

[Related Articles, Links](#)



Sarcoplasmic reticulum proteins in heart failure.

Ann N Y Acad Sci. 1998 Sep 16;853:220-30. Review.
PMID: 10603950 [PubMed - indexed for MEDLINE]

☐ **223:** [Goldhaber JJ.](#)

[Related Articles, Links](#)



Sodium-calcium exchange: the phantom menace.

Circ Res. 1999 Nov 26;85(11):982-4. No abstract available.
PMID: 10571527 [PubMed - indexed for MEDLINE]

☐ **224:** [Prestle J, Dieterich S, Preuss M, Bieligg U, Hasenfuss G.](#)

[Related Articles, Links](#)



Heterogeneous transmural gene expression of calcium-handling proteins and natriuretic peptides in the failing human heart.

Cardiovasc Res. 1999 Aug 1;43(2):323-31.
PMID: 10536662 [PubMed - indexed for MEDLINE]

☐ **225:** [Brundel BJ, van Gelder IC, Henning RH, Tuinenburg AE, Deelman LE, Tieleman RG, Grandjean JG, van Gilst WH, Crijns HJ.](#)

[Related Articles, Links](#)



Gene expression of proteins influencing the calcium homeostasis in patients with persistent and paroxysmal atrial fibrillation.

Cardiovasc Res. 1999 May;42(2):443-54.
PMID: 10533580 [PubMed - indexed for MEDLINE]

☐ **226:** [Zacikova L, Krizanova O.](#)

[Related Articles, Links](#)



[Structure and function of selected Ca(2+) transport systems in cardiac cells]

Cesk Fysiol. 1999 May;48(2):62-76. Review. Slovak.
PMID: 10510560 [PubMed - indexed for MEDLINE]

☐ **227:** [Kimura M, Jeanclos EM, Donnelly RJ, Lytton J, Reeves JP.](#)

[Related Articles, Links](#)

Aviv A.



Physiological and molecular characterization of the Na⁺/Ca²⁺ exchanger in human platelets.

Am J Physiol. 1999 Sep;277(3 Pt 2):H911-7.

PMID: 10484410 [PubMed - indexed for MEDLINE]

☐ **228:** Kasir J, Ren X, Furman I, Rahamimoff H.

Related Articles, Links



Truncation of the C terminus of the rat brain Na⁽⁺⁾-Ca⁽²⁺⁾ exchanger RBE-1 (NCX1.4) impairs surface expression of the protein.

J Biol Chem. 1999 Aug 27;274(35):24873-80.

PMID: 10455160 [PubMed - indexed for MEDLINE]

☐ **229:** Gaughan JP, Furukawa S, Jeevanandam V, Hefner CA, Kubo H, Margulies KB, McGowan BS, Mattiello JA, Dipla K, Piacentino V 3rd, Li S, Houser SR.

Related Articles, Links



Sodium/calcium exchange contributes to contraction and relaxation in failed human ventricular myocytes.

Am J Physiol. 1999 Aug;277(2 Pt 2):H714-24.

PMID: 10444498 [PubMed - indexed for MEDLINE]

☐ **230:** Nofer JR, Pulawski E, Junker R, Seedorf U, Assmann G, Zidek W, Tepel M.

Related Articles, Links



Na⁽⁺⁾/Ca⁽²⁺⁾ exchange inhibitors modulate thapsigargin-induced Ca⁽²⁺⁾ and Na⁽⁺⁾ influx in human lymphocytes.

Int J Clin Lab Res. 1999;29(2):89-92.

PMID: 10436268 [PubMed - indexed for MEDLINE]

☐ **231:** Maixent JM, Lelievre L, Berrebi-Bertrand I.

Related Articles, Links



Mechanism underlying the strong positive inotropic effects of LND-623: specific inhibition of Na, K-ATPase isoforms and exclusion of cellular sites of contractile control.

Cardiovasc Drugs Ther. 1998 Dec;12(6):585-94.

PMID: 10410828 [PubMed - indexed for MEDLINE]

☐ **232:** Blaustein MP, Lederer WJ.

Related Articles, Links



Sodium/calcium exchange: its physiological implications.

Physiol Rev. 1999 Jul;79(3):763-854. Review.

PMID: 10390518 [PubMed - indexed for MEDLINE]

☐ **233:** Van Gelder IC, Brundel BJ, Henning RH, Tuinenburg AE, Tieleman RG, Deelman L, Grandjean JG, De Kam PJ, Van Gilst WH, Crijns HJ.

Related Articles, Links



Alterations in gene expression of proteins involved in the calcium handling in patients with atrial fibrillation.

J Cardiovasc Electrophysiol. 1999 Apr;10(4):552-60.

PMID: 10355697 [PubMed - indexed for MEDLINE]

☐ **234:** Su Z, Bridge JH, Philipson KD, Spitzer KW, Barry WH.

Related Articles, Links



Quantitation of Na/Ca exchanger function in single ventricular myocytes.

J Mol Cell Cardiol. 1999 May;31(5):1125-35.

PMID: 10336850 [PubMed - indexed for MEDLINE]

☐ **235:** Owen VJ, Burton PB, Michel MC, Zolk O, Bohm M, Pepper JR, Barton PJ, Yacoub MH, Harding SE.

Related Articles, Links



Myocardial dysfunction in donor hearts. A possible etiology.
Circulation. 1999 May 18;99(19):2565-70.
PMID: 10330389 [PubMed - indexed for MEDLINE]



236: [Egger M, Ruknudin A, Niggli E, Lederer WJ, Schulze DH.](#) Related Articles, Links



Ni²⁺ transport by the human Na⁺/Ca²⁺ exchanger expressed in Sf9 cells.
Am J Physiol. 1999 May;276(5 Pt 1):C1184-92.
PMID: 10329968 [PubMed - indexed for MEDLINE]



237: [Cooper CB, Winkfein RJ, Szerencsei RT, Schnetkamp PP.](#) Related Articles, Links



cDNA cloning and functional expression of the dolphin retinal rod Na-Ca+K exchanger NCKX1: comparison with the functionally silent bovine NCKX1.
Biochemistry. 1999 May 11;38(19):6276-83.
PMID: 10320357 [PubMed - indexed for MEDLINE]



238: [Schwinger RH, Wang J, Frank K, Muller-Ehmsen J, Brixius K, McDonough AA, Erdmann E.](#) Related Articles, Links



Reduced sodium pump alpha1, alpha3, and beta1-isoform protein levels and Na⁺,K⁺-ATPase activity but unchanged Na⁺-Ca²⁺ exchanger protein levels in human heart failure.
Circulation. 1999 Apr 27;99(16):2105-12.
PMID: 10217649 [PubMed - indexed for MEDLINE]



239: [Jornot L, Maechler P, Wollheim CB, Junod AF.](#) Related Articles, Links



Reactive oxygen metabolites increase mitochondrial calcium in endothelial cells: implication of the Ca²⁺/Na⁺ exchanger.
J Cell Sci. 1999 Apr;112 (Pt 7):1013-22.
PMID: 10198283 [PubMed - indexed for MEDLINE]



240: [Egger M, Ruknudin A, Lipp P, Kofuji P, Lederer WJ, Schulze DH, Niggli E.](#) Related Articles, Links



Functional expression of the human cardiac Na⁺/Ca²⁺ exchanger in Sf9 cells: rapid and specific Ni²⁺ transport.
Cell Calcium. 1999 Jan;25(1):9-17.
PMID: 10191956 [PubMed - indexed for MEDLINE]



241: [Guerini D.](#) Related Articles, Links



The Ca²⁺ pumps and the Na⁺/Ca²⁺ exchangers.
Biometals. 1998 Dec;11(4):319-30. Review.
PMID: 10191496 [PubMed - indexed for MEDLINE]



242: [Iwamoto T, Nakamura TY, Pan Y, Uehara A, Imanaga I, Shigekawa M.](#) Related Articles, Links












Unique topology of the internal repeats in the cardiac Na⁺/Ca²⁺ exchanger.
FEBS Lett. 1999 Mar 12;446(2-3):264-8.
PMID: 10100855 [PubMed - indexed for MEDLINE]












243: [Kim HS, Lee JH, Suh YH.](#) Related Articles, Links



C-terminal fragment of Alzheimer's amyloid precursor protein inhibits sodium/calcium exchanger activity in SK-N-SH cell.
Neuroreport. 1999 Jan 18;10(1):113-6.
PMID: 10094144 [PubMed - indexed for MEDLINE]

- ☐ **244:** [Mochizuki S, Jiang C.](#) Related Articles, Links
 **Na⁺/Ca⁺⁺ exchanger and myocardial ischemia/reperfusion.**
Jpn Heart J. 1998 Nov;39(6):707-14.
PMID: 10089932 [PubMed - indexed for MEDLINE]
- ☐ **245:** [Egger M, Niggli E.](#) Related Articles, Links
 **Regulatory function of Na-Ca exchange in the heart: milestones and outlook.**
J Membr Biol. 1999 Mar 15;168(2):107-30. Review. No abstract available.
PMID: 10089232 [PubMed - indexed for MEDLINE]
- ☐ **246:** [DiPolo R, Beauge L.](#) Related Articles, Links
 **Metabolic pathways in the regulation of invertebrate and vertebrate Na⁺/Ca²⁺ exchange.**
Biochim Biophys Acta. 1999 Feb 25;1422(1):57-71. Review. No abstract available.
PMID: 10082981 [PubMed - indexed for MEDLINE]
- ☐ **247:** [Winslow RL, Rice J, Jafri S, Marban E, O'Rourke B.](#) Related Articles, Links
 **Mechanisms of altered excitation-contraction coupling in canine tachycardia-induced heart failure, II: model studies.**
Circ Res. 1999 Mar 19;84(5):571-86.
PMID: 10082479 [PubMed - indexed for MEDLINE]
- ☐ **248:** [O'Rourke B, Kass DA, Tomaselli GF, Kaab S, Tunin R, Marban E.](#) Related Articles, Links
 **Mechanisms of altered excitation-contraction coupling in canine tachycardia-induced heart failure, I: experimental studies.**
Circ Res. 1999 Mar 19;84(5):562-70.
PMID: 10082478 [PubMed - indexed for MEDLINE]
- ☐ **249:** [Li XF, Lytton J.](#) Related Articles, Links
 **A circularized sodium-calcium exchanger exon 2 transcript.**
J Biol Chem. 1999 Mar 19;274(12):8153-60.
PMID: 10075718 [PubMed - indexed for MEDLINE]
- ☐ **250:** [Marin J, Encabo A, Briones A, Garcia-Cohen EC, Alonso MJ.](#) Related Articles, Links
 **Mechanisms involved in the cellular calcium homeostasis in vascular smooth muscle: calcium pumps.**
Life Sci. 1999;64(5):279-303. Review.
PMID: 10072189 [PubMed - indexed for MEDLINE]
- ☐ **251:** [Dipla K, Mattiello JA, Margulies KB, Jeevanandam V, Houser SR.](#) Related Articles, Links
 **The sarcoplasmic reticulum and the Na⁺/Ca²⁺ exchanger both contribute to the Ca²⁺ transient of failing human ventricular myocytes.**
Circ Res. 1999 Mar 5;84(4):435-44.
PMID: 10066678 [PubMed - indexed for MEDLINE]
- ☐ **252:** [Hasenfuss G, Schillinger W, Lehnart SE, Preuss M, Pieske B, Maier LS, Prestle J, Minami K, Just H.](#) Related Articles, Links
 **Relationship between Na⁺-Ca²⁺-exchanger protein levels and diastolic function of failing human myocardium.**
Circulation. 1999 Feb 9;99(5):641-8.
PMID: 9950661 [PubMed - indexed for MEDLINE]

- ☐ **253:** [Loeffler KU, Mangini NJ.](#) Related Articles, Links
 Immunohistochemical localization of Na⁺/Ca²⁺ exchanger in human retina and retinal pigment epithelium.
Graefes Arch Clin Exp Ophthalmol. 1998 Dec;236(12):929-33.
PMID: 9865624 [PubMed - indexed for MEDLINE]
- ☐ **254:** [Tucker JE, Winkfein RJ, Murthy SK, Friedman JS, Walter MA, Demetrick DJ, Schnetkamp PP.](#) Related Articles, Links
 Chromosomal localization and genomic organization of the human retinal rod Na-Ca+K exchanger.
Hum Genet. 1998 Oct;103(4):411-4.
PMID: 9856482 [PubMed - indexed for MEDLINE]
- ☐ **255:** [Tomiyama Y, Shiraga M, Kinoshita S, Ambo H, Kurata Y, Matsuzawa Y, Kunicki TJ.](#) Related Articles, Links
 A Glanzmann thrombasthenia-like phenotype caused by a defect in inside-out signaling through the integrin alpha(IIb)beta3.
Thromb Haemost. 1998 Nov;80(5):735-42.
PMID: 9843164 [PubMed - indexed for MEDLINE]
- ☐ **256:** [Schillinger W, Lehnart SE, Prestle J, Preuss M, Pieske B, Maier LS, Meyer M, Just H, Hasenfuss G.](#) Related Articles, Links
 Influence of SR Ca(2+)-ATPase and Na(+)-Ca(2+)-exchanger on the force-frequency relation.
Basic Res Cardiol. 1998;93 Suppl 1:38-45. Review.
PMID: 9833129 [PubMed - indexed for MEDLINE]
- ☐ **257:** [Horiguchi M, Kimura M, Skurnick J, Aviv A.](#) Related Articles, Links
 Parameters of lymphocyte Na⁺-Ca²⁺ regulation and blood pressure: the gender effect.
Hypertension. 1998 Nov;32(5):869-74.
PMID: 9822446 [PubMed - indexed for MEDLINE]
- ☐ **258:** [Shiraga M, Tomiyama Y, Honda S, Suzuki H, Kosugi S, Tadokoro S, Kanakura Y, Tanoue K, Kurata Y, Matsuzawa Y.](#) Related Articles, Links
 Involvement of Na⁺/Ca²⁺ exchanger in inside-out signaling through the platelet integrin IIb beta3.
Blood. 1998 Nov 15;92(10):3710-20.
PMID: 9808565 [PubMed - indexed for MEDLINE]
- ☐ **259:** [Foster RH, Prat H, Rothman I.](#) Related Articles, Links
 Is ouabain produced by the adrenal gland?
Gen Pharmacol. 1998 Oct;31(4):499-501. Review.
PMID: 9792206 [PubMed - indexed for MEDLINE]
- ☐ **260:** [Mikoshiha K.](#) Related Articles, Links
 [Ca²⁺ mobilization and pumping out mechanism]
Tanpakushitsu Kakusan Koso. 1998 Sep;43(12 Suppl):1577-8. Review. Japanese. No abstract available.
PMID: 9788155 [PubMed - indexed for MEDLINE]
- ☐ **261:** [Matsuoka S, Noma A.](#) Related Articles, Links
 [Na(+)-Ca²⁺ exchange]
Tanpakushitsu Kakusan Koso. 1998 Sep;43(12 Suppl):1555-60. Review. Japanese. No abstract available.

PMID: 9788152 [PubMed - indexed for MEDLINE]

- ☐ **262:** [Winslow RL, Rice J, Jafri S.](#) Related Articles, Links



Modeling the cellular basis of altered excitation-contraction coupling in heart failure.

Prog Biophys Mol Biol. 1998;69(2-3):497-514. Review.
PMID: 9785953 [PubMed - indexed for MEDLINE]

- ☐ **263:** [Fukuba Y, Makino S, Takeda Y, Kawashima J, Murakami H, Miura A.](#) Related Articles, Links



The effect of high-salt diet intake on muscular exercise ability in young Japanese women.

Appl Human Sci. 1998 Jul;17(4):145-8.
PMID: 9757602 [PubMed - indexed for MEDLINE]

- ☐ **264:** [Fang Y, Rong M, He L, Zhou C.](#) Related Articles, Links



Mode-actions of the Na(+)-Ca2+ exchanger: from genes to mechanisms to a new strategy in brain disorders.

Biomed Pharmacother. 1998;52(4):145-56.
PMID: 9755808 [PubMed - indexed for MEDLINE]

- ☐ **265:** [Courtemanche M, Ramirez RJ, Nattel S.](#) Related Articles, Links



Ionic mechanisms underlying human atrial action potential properties: insights from a mathematical model.

Am J Physiol. 1998 Jul;275(1 Pt 2):H301-21.
PMID: 9688927 [PubMed - indexed for MEDLINE]

- ☐ **266:** [Iwamoto T, Shigekawa M.](#) Related Articles, Links



Differential inhibition of Na+/Ca2+ exchanger isoforms by divalent cations and isothiourea derivative.

Am J Physiol. 1998 Aug;275(2 Pt 1):C423-30.
PMID: 9688596 [PubMed - indexed for MEDLINE]

- ☐ **267:** [Pieske B.](#) Related Articles, Links



[New aspects of the pathophysiology of heart failure]

Wien Med Wochenschr. 1998;148(5):108-20. Review. German.
PMID: 9654696 [PubMed - indexed for MEDLINE]

- ☐ **268:** [Itoh T, Itoh A, Horiuchi K, Pleasure D.](#) Related Articles, Links



AMPA receptor-mediated excitotoxicity in human NT2-N neurons results from loss of intracellular Ca2+ homeostasis following marked elevation of intracellular Na+.

J Neurochem. 1998 Jul;71(1):112-24.
PMID: 9648857 [PubMed - indexed for MEDLINE]

- ☐ **269:** [Priebe L, Beuckelmann DJ.](#) Related Articles, Links



Simulation study of cellular electric properties in heart failure.

Circ Res. 1998 Jun 15;82(11):1206-23.
PMID: 9633920 [PubMed - indexed for MEDLINE]

- ☐ **270:** [Carrillo C, Cafferata EG, Genovese J, O'Reilly M, Roberts AB, Santa-Coloma TA.](#) Related Articles, Links



TGF-beta1 up-regulates the mRNA for the Na+/Ca2+ exchanger in neonatal rat cardiac myocytes.

Cell Mol Biol (Noisy-le-grand). 1998 May;44(3):543-51.

PMID: 9620452 [PubMed - indexed for MEDLINE]

- ☐ **271:** Mattiello JA, Margulies KB, Jeevanandam V, Houser SR. [Related Articles, Links](#)



Contribution of reverse-mode sodium-calcium exchange to contractions in failing human left ventricular myocytes.

Cardiovasc Res. 1998 Feb;37(2):424-31.

PMID: 9614497 [PubMed - indexed for MEDLINE]

- ☐ **272:** Cook O, Low W, Rahamimoff H. [Related Articles, Links](#)



Membrane topology of the rat brain Na⁺-Ca²⁺ exchanger.

Biochim Biophys Acta. 1998 Apr 22;1371(1):40-52.

PMID: 9565655 [PubMed - indexed for MEDLINE]

- ☐ **273:** Endoh M. [Related Articles, Links](#)



Changes in intracellular Ca²⁺ mobilization and Ca²⁺ sensitization as mechanisms of action of physiological interventions and inotropic agents in intact myocardial cells.

Jpn Heart J. 1998 Jan;39(1):1-44. Review.

PMID: 9601480 [PubMed - indexed for MEDLINE]

- ☐ **274:** Dyck C, Maxwell K, Buchko J, Trac M, Omelchenko A, Hnatowich M, Hryshko LV. [Related Articles, Links](#)



Structure-function analysis of CALX1.1, a Na⁺-Ca²⁺ exchanger from *Drosophila*. Mutagenesis of ionic regulatory sites.

J Biol Chem. 1998 May 22;273(21):12981-7.

PMID: 9582332 [PubMed - indexed for MEDLINE]

- ☐ **275:** Kiang JG, Ding XZ, McClain DE. [Related Articles, Links](#)



Overexpression of HSP-70 attenuates increases in [Ca²⁺]_i and protects human epidermoid A-431 cells after chemical hypoxia.

Toxicol Appl Pharmacol. 1998 Apr;149(2):185-94.

PMID: 9571987 [PubMed - indexed for MEDLINE]

- ☐ **276:** Friedman PA. [Related Articles, Links](#)



Codependence of renal calcium and sodium transport.

Annu Rev Physiol. 1998;60:179-97. Review.

PMID: 9558460 [PubMed - indexed for MEDLINE]

- ☐ **277:** Matsuda T, Baba A. [Related Articles, Links](#)



[Response of Na⁺/Ca²⁺ antiporter to ischemia and glial/neuronal death]

Nippon Yakurigaku Zasshi. 1998 Jan;111(1):13-9. Review. Japanese.

PMID: 9551468 [PubMed - indexed for MEDLINE]

- ☐ **278:** Jones LR, Suzuki YJ, Wang W, Kobayashi YM, Ramesh V, Franzini-Armstrong C, Cleemann L, Morad M. [Related Articles, Links](#)



Regulation of Ca²⁺ signaling in transgenic mouse cardiac myocytes overexpressing calsequestrin.

J Clin Invest. 1998 Apr 1;101(7):1385-93.

PMID: 9525981 [PubMed - indexed for MEDLINE]

- ☐ **279:** Scheller T, Kraev A, Skinner S, Carafoli E. [Related Articles, Links](#)



Cloning of the multipartite promoter of the sodium-calcium exchanger gene NCX1 and characterization of its activity in vascular smooth muscle cells.

J Biol Chem. 1998 Mar 27;273(13):7643-9.

PMID: 9516469 [PubMed - indexed for MEDLINE]

- ☐ **280:** [Berberian G, Hidalgo C, DiPolo R, Beauge L.](#) Related Articles, Links



ATP stimulation of Na⁺/Ca²⁺ exchange in cardiac sarcolemmal vesicles.

Am J Physiol. 1998 Mar;274(3 Pt 1):C724-33.

PMID: 9530104 [PubMed - indexed for MEDLINE]

- ☐ **281:** [Satoh H, Sperelakis N.](#) Related Articles, Links



Review of some actions of taurine on ion channels of cardiac muscle cells and others.

Gen Pharmacol. 1998 Apr;30(4):451-63. Review.

PMID: 9522160 [PubMed - indexed for MEDLINE]

- ☐ **282:** [Watano T, Kimura J.](#) Related Articles, Links



Calcium-dependent inhibition of the sodium-calcium exchange current by KB-R7943.

Can J Cardiol. 1998 Feb;14(2):259-62.

PMID: 9520863 [PubMed - indexed for MEDLINE]

- ☐ **283:** [Tucker JE, Winkfein RJ, Cooper CB, Schnetkamp PP.](#) Related Articles, Links



cDNA cloning of the human retinal rod Na-Ca + K exchanger: comparison with a revised bovine sequence.

Invest Ophthalmol Vis Sci. 1998 Feb;39(2):435-40.

PMID: 9478004 [PubMed - indexed for MEDLINE]

- ☐ **284:** [Mangini NJ, Haugh-Scheidt L, Valle JE, Cragoe EJ Jr, Ripps H, Kennedy BG.](#) Related Articles, Links



Sodium-calcium exchanger in cultured human retinal pigment epithelium.

Exp Eye Res. 1997 Dec;65(6):821-34.

PMID: 9441706 [PubMed - indexed for MEDLINE]

- ☐ **285:** [Aviv A.](#) Related Articles, Links



Cellular calcium and sodium regulation, salt-sensitivity and essential hypertension in African Americans.

Ethn Health. 1996 Sep;1(3):275-81. Review.

PMID: 9395572 [PubMed - indexed for MEDLINE]

- ☐ **286:** [Schwinger RH, Brixius K, Bavendiek U, Hoischen S, Muller-Ehmsen J, Bolck B, Erdmann E.](#) Related Articles, Links



Effect of cyclopiazonic acid on the force-frequency relationship in human nonfailing myocardium.

J Pharmacol Exp Ther. 1997 Oct;283(1):286-92.

PMID: 9336335 [PubMed - indexed for MEDLINE]

- ☐ **287:** [Morad M, Suzuki YJ.](#) Related Articles, Links



Ca(2⁺)-signaling in cardiac myocytes: evidence from evolutionary and transgenic models.

Adv Exp Med Biol. 1997;430:3-12. Review.

PMID: 9330714 [PubMed - indexed for MEDLINE]

- ☐ **288:** [Wu A, Derrico CA, Hatem L, Colvin RA.](#) Related Articles, Links



Alzheimer's amyloid-beta peptide inhibits sodium/calcium exchange

measured in rat and human brain plasma membrane vesicles.
Neuroscience. 1997 Oct;80(3):675-84.
PMID: 9276485 [PubMed - indexed for MEDLINE]

- ☐ **289:** Ruknudin A, Valdivia C, Kofuji P, Lederer WJ, Schulze DH. Related Articles, Links



Na⁺/Ca²⁺ exchanger in *Drosophila*: cloning, expression, and transport differences.

Am J Physiol. 1997 Jul;273(1 Pt 1):C257-65.
PMID: 9252464 [PubMed - indexed for MEDLINE]

- ☐ **290:** Navanglone A, Rispoli G, Gabellini N, Carafoli E. Related Articles, Links



Electrophysiological characterization of ionic transport by the retinal exchanger expressed in human embryonic kidney cells.

Biophys J. 1997 Jul;73(1):45-51.
PMID: 9199770 [PubMed - indexed for MEDLINE]

- ☐ **291:** Levi AJ, Dalton GR, Hancox JC, Mitcheson JS, Issberner J, Bates JA, Evans SJ, Howarth FC, Hobai IA, Jones JV. Related Articles, Links



Role of intracellular sodium overload in the genesis of cardiac arrhythmias.

J Cardiovasc Electrophysiol. 1997 Jun;8(6):700-21. Review.
PMID: 9209972 [PubMed - indexed for MEDLINE]

- ☐ **292:** Matsuda T, Takuma K, Baba A. Related Articles, Links



Na⁺(+)-Ca²⁺ exchanger: physiology and pharmacology.

Jpn J Pharmacol. 1997 May;74(1):1-20. Review.
PMID: 9195292 [PubMed - indexed for MEDLINE]

- ☐ **293:** Muller-Ehmsen J, Frank K, Brixius K, Schwinger RH. Related Articles, Links



Increase in force of contraction by activation of the Na⁺/Ca²⁺-exchanger in human myocardium.

Br J Clin Pharmacol. 1997 Apr;43(4):399-405.
PMID: 9146852 [PubMed - indexed for MEDLINE]

- ☐ **294:** LoPachin RM, Lehning EJ. Related Articles, Links



Mechanism of calcium entry during axon injury and degeneration.

Toxicol Appl Pharmacol. 1997 Apr;143(2):233-44. Review.
PMID: 9144441 [PubMed - indexed for MEDLINE]

- ☐ **295:** Resendes MC, Kalogeros GC, Dixon SJ, Philp RB. Related Articles, Links



Nitrous oxide enhances Na⁺/Ca⁺⁺ exchange in the neuroblastoma cell line SK-N-SH.

J Pharmacol Exp Ther. 1997 Feb;280(2):795-801.
PMID: 9023293 [PubMed - indexed for MEDLINE]

- ☐ **296:** Foey AD, Crawford A, Hall ND. Related Articles, Links



Modulation of cytokine production by human mononuclear cells following impairment of Na, K-ATPase activity.

Biochim Biophys Acta. 1997 Jan 10;1355(1):43-9.
PMID: 9030200 [PubMed - indexed for MEDLINE]

- ☐ **297:** Studer R, Reinecke H, Vetter R, Holtz J, Drexler H. Related Articles, Links



Expression and function of the cardiac Na⁺/Ca²⁺ exchanger in postnatal development of the rat, in experimental-induced cardiac hypertrophy

and in the failing human heart.

Basic Res Cardiol. 1997;92 Suppl 1:53-8. Review.

PMID: 9202844 [PubMed - indexed for MEDLINE]

- ☐ **298:** Hryshko LV, Philipson KD.

Related Articles, Links



Sodium-calcium exchange: recent advances.

Basic Res Cardiol. 1997;92 Suppl 1:45-51. Review.

PMID: 9202843 [PubMed - indexed for MEDLINE]

- ☐ **299:** Pitt A, Knox AJ.

Related Articles, Links



Molecular characterization of the human airway smooth muscle

Na⁺/Ca²⁺ exchanger.

Am J Respir Cell Mol Biol. 1996 Dec;15(6):726-30.

PMID: 8969266 [PubMed - indexed for MEDLINE]

- ☐ **300:** Brandenburger Y, Kennedy ED, Python CP, Rossier MF, Vallotton MB, Wollheim CB, Capponi AM.

Related Articles, Links



Possible role for mitochondrial calcium in angiotensin II- and potassium-stimulated steroidogenesis in bovine adrenal glomerulosa cells.

Endocrinology. 1996 Dec;137(12):5544-51.

PMID: 8940382 [PubMed - indexed for MEDLINE]

- ☐ **301:** White KE, Gesek FA, Friedman PA.

Related Articles, Links



Na⁺/Ca²⁺ exchange in rat osteoblast-like UMR 106 cells.

J Bone Miner Res. 1996 Nov;11(11):1666-75.

PMID: 8915774 [PubMed - indexed for MEDLINE]

- ☐ **302:** Kraev A, Chumakov I, Carafoli E.

Related Articles, Links



The organization of the human gene NCX1 encoding the sodium-calcium exchanger.

Genomics. 1996 Oct 1;37(1):105-12.

PMID: 8921376 [PubMed - indexed for MEDLINE]

- ☐ **303:** Shiraga M, Tomiyama Y, Honda S, Kashiwagi H, Kosugi S, Handa M, Ikeda Y, Kanakura Y, Kurata Y, Matsuzawa Y.

Related Articles, Links



Affinity modulation of the platelet integrin alpha IIb beta 3 by alpha-chymotrypsin: a possible role for Na⁺/Ca²⁺ exchanger.

Blood. 1996 Oct 1;88(7):2594-602.

PMID: 8839852 [PubMed - indexed for MEDLINE]

- ☐ **304:** Wang J, Schwinger RH, Frank K, Muller-Ehmsen J, Martin-Vasallo P, Pressley TA, Xiang A, Erdmann E, McDonough AA.

Related Articles, Links



Regional expression of sodium pump subunits isoforms and Na⁺-Ca⁺⁺ exchanger in the human heart.

J Clin Invest. 1996 Oct 1;98(7):1650-8.

PMID: 8833915 [PubMed - indexed for MEDLINE]

- ☐ **305:** Benardeau A, Hatem SN, Rucker-Martin C, Le Grand B, Mace L, Dervanian P, Mercadier JJ, Coraboeuf E.

Related Articles, Links












Contribution of Na⁺/Ca²⁺ exchange to action potential of human atrial myocytes.










Am J Physiol. 1996 Sep;271(3 Pt 2):H1151-61.










PMID: 8853354 [PubMed - indexed for MEDLINE]

- ☐ **306:** Flesch M, Schwinger RH, Schiffer F, Frank K, Sudkamp M.

Related Articles, Links

-  Kuhn-Regnier F, Arnold G, Bohm M.
Evidence for functional relevance of an enhanced expression of the Na(+)-Ca²⁺ exchanger in failing human myocardium.
Circulation. 1996 Sep 1;94(5):992-1002.
PMID: 8790037 [PubMed - indexed for MEDLINE]
- ☐ **307:** Gabellini N, Zatti A, Rispoli G, Navangione A, Carafoli E. Related Articles, Links
 Expression of an active Na⁺/Ca²⁺ exchanger isoform lacking the six C-terminal transmembrane segments.
Eur J Biochem. 1996 Aug 1;239(3):897-904.
PMID: 8774741 [PubMed - indexed for MEDLINE]
- ☐ **308:** Janvier NC, Boyett MR. Related Articles, Links
 The role of Na-Ca exchange current in the cardiac action potential.
Cardiovasc Res. 1996 Jul;32(1):69-84. Review.
PMID: 8776405 [PubMed - indexed for MEDLINE]
- ☐ **309:** Lederer WJ, He S, Luo S, duBell W, Kofuji P, Kieval R, Neubauer CF, Ruknudin A, Cheng H, Cannell MB, Rogers TB, Schulze DH. Related Articles, Links
 The molecular biology of the Na(+)-Ca²⁺ exchanger and its functional roles in heart, smooth muscle cells, neurons, glia, lymphocytes, and nonexcitable cells.
Ann N Y Acad Sci. 1996 Apr 15;779:7-17. Review. No abstract available.
PMID: 8659882 [PubMed - indexed for MEDLINE]
- ☐ **310:** Reinecke H, Studer R, Vetter R, Just H, Holtz J, Drexler H. Related Articles, Links
 Role of the cardiac sarcolemmal Na(+)-Ca²⁺ exchanger in end-stage human heart failure.
Ann N Y Acad Sci. 1996 Apr 15;779:543-5. No abstract available.
PMID: 8659875 [PubMed - indexed for MEDLINE]
- ☐ **311:** Flesch M, Putz F, Schwinger RH, Bohm M. Related Articles, Links
 Functional relevance of an enhanced expression of the Na(+)-Ca²⁺ exchanger in the failing human heart.
Ann N Y Acad Sci. 1996 Apr 15;779:539-42. No abstract available.
PMID: 8659874 [PubMed - indexed for MEDLINE]
- ☐ **312:** Li GR, Nattel S. Related Articles, Links
 Demonstration of an inward Na(+)-Ca²⁺ exchange current in adult human atrial myocytes.
Ann N Y Acad Sci. 1996 Apr 15;779:525-8. No abstract available.
PMID: 8659869 [PubMed - indexed for MEDLINE]
- ☐ **313:** Gardner JP, Balasubramanyam M. Related Articles, Links
 Na-Ca exchange in circulating blood cells.
Ann N Y Acad Sci. 1996 Apr 15;779:502-14. Review.
PMID: 8659866 [PubMed - indexed for MEDLINE]
- ☐ **314:** Schulze DH, Kofuji P, Valdivia C, He S, Luo S, Ruknudin A, Wisel S, Kirby MS, duBell W, Lederer WJ. Related Articles, Links
 Alternative splicing of the Na(+)-Ca²⁺ exchanger gene, NCX1.
Ann N Y Acad Sci. 1996 Apr 15;779:46-57. Review.
PMID: 8659862 [PubMed - indexed for MEDLINE]

- ☐ **315:** [Langer GA, Peskoff A.](#) Related Articles, Links
 Calcium in the cardiac diadic cleft. Implications for sodium-calcium exchange.
Ann N Y Acad Sci. 1996 Apr 15;779:408-16. Review. No abstract available.
PMID: 8659857 [PubMed - indexed for MEDLINE]
- ☐ **316:** [Rahamimoff H, Low W, Cook O, Furman I, Kasir J, Vatahski R.](#) Related Articles, Links
 The structural basis of Na(+)-Ca2+ exchange activity.
Ann N Y Acad Sci. 1996 Apr 15;779:29-36. Review. No abstract available.
PMID: 8659840 [PubMed - indexed for MEDLINE]
- ☐ **317:** [Gabellini N, Iwata T, Carafoli E.](#) Related Articles, Links
 Expression of Na(+)-Ca2+ exchanger with modified C-terminal hydrophobic domains and enhanced activity.
Ann N Y Acad Sci. 1996 Apr 15;779:110-4. Review.
PMID: 8659816 [PubMed - indexed for MEDLINE]
- ☐ **318:** [Kraev A, Chumakov I, Carafoli E.](#) Related Articles, Links
 Molecular biological studies of the cardiac sodium-calcium exchanger.
Ann N Y Acad Sci. 1996 Apr 15;779:103-9. Review.
PMID: 8659815 [PubMed - indexed for MEDLINE]
- ☐ **319:** [\[No authors listed\]](#) Related Articles, Links
 3rd International Conference on Sodium-Calcium Exchange. Woods Hole, Massachusetts, April 23-26, 1995. Proceedings.
Ann N Y Acad Sci. 1996 Apr 15;779:1-589. No abstract available.
PMID: 8659814 [PubMed - indexed for MEDLINE]
- ☐ **320:** [Just H.](#) Related Articles, Links
 Pathophysiological targets for beta-blocker therapy in congestive heart failure.
Eur Heart J. 1996 Apr;17 Suppl B:2-7.
PMID: 8733064 [PubMed - indexed for MEDLINE]
- ☐ **321:** [Colvin RA, Walker JP, Schummers J, Davis N.](#) Related Articles, Links
 Aging does not affect steady-state expression of the Na+/Ca2+ exchanger in rat brain.
Cell Mol Neurobiol. 1996 Feb;16(1):11-9.
PMID: 8714556 [PubMed - indexed for MEDLINE]
- ☐ **322:** [Drexler H.](#) Related Articles, Links
 [Sympathetic nervous system in heart failure: effect of catecholamines and nitric oxide]
Z Kardiol. 1996;85 Suppl 6:247-52. Review. German.
PMID: 9064972 [PubMed - indexed for MEDLINE]
- ☐ **323:** [Capponi AM.](#) Related Articles, Links
 Distribution and signal transduction of angiotensin II AT1 and AT2 receptors.
Blood Press Suppl. 1996;2:41-6. Review.
PMID: 8913539 [PubMed - indexed for MEDLINE]
- ☐ **324:** [Sham JS, Hatem SN, Morad M.](#) Related Articles, Links

-  Species differences in the activity of the Na(+)-Ca2+ exchanger in mammalian cardiac myocytes.
J Physiol. 1995 Nov 1;488 (Pt 3):623-31.
PMID: 8576853 [PubMed - indexed for MEDLINE]
- ☐ **325:** Loo TW, Ho C, Clarke DM. [Related Articles, Links](#)
-  Expression of a functionally active human renal sodium-calcium exchanger lacking a signal sequence.
J Biol Chem. 1995 Aug 18;270(33):19345-50.
PMID: 7642612 [PubMed - indexed for MEDLINE]
- ☐ **326:** Furman I, Cook O, Kasir J, Low W, Rahamimoff H. [Related Articles, Links](#)
-  The putative amino-terminal signal peptide of the cloned rat brain Na (+)-Ca2+ exchanger gene (RBE-1) is not mandatory for functional expression.
J Biol Chem. 1995 Aug 11;270(32):19120-7.
PMID: 7642578 [PubMed - indexed for MEDLINE]
- ☐ **327:** Lipp P, Schwaller B, Niggli E. [Related Articles, Links](#)
-  Specific inhibition of Na-Ca exchange function by antisense oligodeoxynucleotides.
FEBS Lett. 1995 May 8;364(2):198-202. Erratum in: FEBS Lett 1995 Aug 21;370 (3):280.
PMID: 7750570 [PubMed - indexed for MEDLINE]
- ☐ **328:** Gabellini N, Iwata T, Carafoli E. [Related Articles, Links](#)
-  An alternative splicing site modifies the carboxyl-terminal trans-membrane domains of the Na+/Ca2+ exchanger.
J Biol Chem. 1995 Mar 24;270(12):6917-24.
PMID: 7896841 [PubMed - indexed for MEDLINE]
- ☐ **329:** Kordeli E, Lambert S, Bennett V. [Related Articles, Links](#)
-  AnkyrinG. A new ankyrin gene with neural-specific isoforms localized at the axonal initial segment and node of Ranvier.
J Biol Chem. 1995 Feb 3;270(5):2352-9.
PMID: 7836469 [PubMed - indexed for MEDLINE]
- ☐ **330:** Gatto C, Hale CC, Xu W, Milanick MA. [Related Articles, Links](#)
-  Eosin, a potent inhibitor of the plasma membrane Ca pump, does not inhibit the cardiac Na-Ca exchanger.
Biochemistry. 1995 Jan 24;34(3):965-72.
PMID: 7530047 [PubMed - indexed for MEDLINE]
- ☐ **331:** Morishita F, Kawarabayashi T, Sakamoto Y, Shirakawa K. [Related Articles, Links](#)
-  Role of the sodium-calcium exchange mechanism and the effect of magnesium on sodium-free and high-potassium contractures in pregnant human myometrium.
Am J Obstet Gynecol. 1995 Jan;172(1 Pt 1):186-95.
PMID: 7847532 [PubMed - indexed for MEDLINE]
- ☐ **332:** Fisher DJ. [Related Articles, Links](#)
-  Recent insights into the regulation of cardiac Ca2+ flux during perinatal development and in cardiac failure.
Curr Opin Cardiol. 1995 Jan;10(1):44-51. Review.

PMID: 7787264 [PubMed - indexed for MEDLINE]

☐ **333:** [Michaelis ML.](#)

[Related Articles, Links](#)



Ion transport systems and Ca^{2+} regulation in aging neurons.
Ann N Y Acad Sci. 1994 Dec 15;747:407-18. Review. No abstract available.
PMID: 7847687 [PubMed - indexed for MEDLINE]

☐ **334:** [Colvin RA, Davis N, Wu A, Murphy CA, Levengood J.](#)

[Related Articles, Links](#)



Studies of the mechanism underlying increased $\text{Na}^{+}/\text{Ca}^{2+}$ exchange activity in Alzheimer's disease brain.
Brain Res. 1994 Dec 5;665(2):192-200.
PMID: 7895054 [PubMed - indexed for MEDLINE]

☐ **335:** [Wu A, Colvin RA.](#)

[Related Articles, Links](#)



Characterization of exchange inhibitory peptide effects on $\text{Na}^{+}/\text{Ca}^{2+}$ exchange in rat and human brain plasma membrane vesicles.
J Neurochem. 1994 Dec;63(6):2136-43.
PMID: 7964733 [PubMed - indexed for MEDLINE]

☐ **336:** [Suleiman MS.](#)

[Related Articles, Links](#)



New concepts in the cardioprotective action of magnesium and taurine during the calcium paradox and ischaemia of the heart.
Magnes Res. 1994 Dec;7(3-4):295-312. Review.
PMID: 7786694 [PubMed - indexed for MEDLINE]

☐ **337:** [Balasubramanyam M, Rohowsky-Kochan C, Reeves JP, Gardner JP.](#)

[Related Articles, Links](#)



$\text{Na}^{+}/\text{Ca}^{2+}$ exchange-mediated calcium entry in human lymphocytes.
J Clin Invest. 1994 Nov;94(5):2002-8.
PMID: 7962546 [PubMed - indexed for MEDLINE]

☐ **338:** [Reeves JP, Condrescu M, Chernaya G, Gardner JP.](#)

[Related Articles, Links](#)



$\text{Na}^{+}/\text{Ca}^{2+}$ antiport in the mammalian heart.
J Exp Biol. 1994 Nov;196:375-88. Review.
PMID: 7823035 [PubMed - indexed for MEDLINE]

☐ **339:** [Grinstein S, Wieczorek H.](#)

[Related Articles, Links](#)



Cation antiports of animal plasma membranes.
J Exp Biol. 1994 Nov;196:307-18. Review. No abstract available.
PMID: 7823030 [PubMed - indexed for MEDLINE]

☐ **340:** [Kim-Lee MH, Stokes BT, McDonald JS.](#)

[Related Articles, Links](#)



Procaine, lidocaine, and hypothermia inhibit calcium paradox in glial cells.
Anesth Analg. 1994 Oct;79(4):728-33.
PMID: 7943783 [PubMed - indexed for MEDLINE]

☐ **341:** [Benders AA, Li J, Lock RA, Bindels RJ, Bonga SE, Veerkamp JH.](#)










[Related Articles, Links](#)



Copper toxicity in cultured human skeletal muscle cells: the involvement of $\text{Na}^{+}/\text{K}^{+}$ -ATPase and the $\text{Na}^{+}/\text{Ca}^{2+}$ -exchanger.
Pflugers Arch. 1994 Oct;428(5-6):461-7.
PMID: 7838667 [PubMed - indexed for MEDLINE]

☐ **342:** [Atsma DE, Bastiaanse EM, Ince C, van der Laarse A.](#)

[Related Articles, Links](#)

-  A novel two-compartment culture dish allows microscopic evaluation of two different treatments in one cell culture simultaneously. Influence of external pH on Na⁺/Ca²⁺ exchanger activity in cultured rat cardiomyocytes.
Pflugers Arch. 1994 Oct;428(3-4):296-9.
PMID: 7816552 [PubMed - indexed for MEDLINE]
- ☐ **343:** Studer R, Reinecke H, Bilger J, Eschenhagen T, Bohm M, Hasenfuss G, Just H, Holtz J, Drexler H. [Related Articles](#), [Links](#)
-  Gene expression of the cardiac Na⁽⁺⁾-Ca²⁺ exchanger in end-stage human heart failure.
Circ Res. 1994 Sep;75(3):443-53.
PMID: 8062418 [PubMed - indexed for MEDLINE]
- ☐ **344:** Harvey BJ. [Related Articles](#), [Links](#)
-  Crosstalk and epithelial ion transport.
Curr Opin Nephrol Hypertens. 1994 Sep;3(5):523-8.
PMID: 7804751 [PubMed - indexed for MEDLINE]
- ☐ **345:** Kimura M, Cho JH, Reeves JP, Aviv A. [Related Articles](#), [Links](#)
-  Inhibition of Ca²⁺ entry by Ca²⁺ overloading of intracellular Ca²⁺ stores in human platelets.
J Physiol. 1994 Aug 15;479 (Pt 1):1-10.
PMID: 7527459 [PubMed - indexed for MEDLINE]
- ☐ **346:** Lax D, Martinez-Zaguilan R, Gillies RJ. [Related Articles](#), [Links](#)
-  Furazolidone increases thapsigargin-sensitive Ca⁽²⁺⁾-ATPase in chick cardiac myocytes.
Am J Physiol. 1994 Aug;267(2 Pt 2):H734-41.
PMID: 8067429 [PubMed - indexed for MEDLINE]
- ☐ **347:** Reithmeier RA. [Related Articles](#), [Links](#)
-  Mammalian exchangers and co-transporters.
Curr Opin Cell Biol. 1994 Aug;6(4):583-94. Review.
PMID: 7986536 [PubMed - indexed for MEDLINE]
- ☐ **348:** Hoey A, Amos GJ, Ravens U. [Related Articles](#), [Links](#)
-  Comparison of the action potential prolonging and positive inotropic activity of DPI 201-106 and BDF 9148 in human ventricular myocardium.
J Mol Cell Cardiol. 1994 Aug;26(8):985-94.
PMID: 7799453 [PubMed - indexed for MEDLINE]
- ☐ **349:** Kiang JG, Smallridge RC. [Related Articles](#), [Links](#)
-  Sodium cyanide increases cytosolic free calcium: evidence for activation of the reversed mode of the Na⁺/Ca²⁺ exchanger and Ca²⁺ mobilization from inositol trisphosphate-insensitive pools.
Toxicol Appl Pharmacol. 1994 Aug;127(2):173-81.
PMID: 7519371 [PubMed - indexed for MEDLINE]
- ☐ **350:** Loo TW, Clarke DM. [Related Articles](#), [Links](#)
-  Functional expression of human renal Na⁺/Ca²⁺ exchanger in insect cells.
Am J Physiol. 1994 Jul;267(1 Pt 2):F70-4.

PMID: 8048567 [PubMed - indexed for MEDLINE]

- ☐ **351:** [Li Z, Matsuoka S, Hryshko LV, Nicoll DA, Bersohn MM, Burke EP, Lifton RP, Philipson KD.](#) [Related Articles, Links](#)



Cloning of the NCX2 isoform of the plasma membrane Na(+)-Ca2+ exchanger.

J Biol Chem. 1994 Jul 1;269(26):17434-9.

PMID: 8021246 [PubMed - indexed for MEDLINE]

- ☐ **352:** [Drexler H.](#) [Related Articles, Links](#)



Heart failure: an update on pathophysiology.

Arch Mal Coeur Vaiss. 1994 Jun;87 Spec No 2:13-6.

PMID: 7864717 [PubMed - indexed for MEDLINE]

- ☐ **353:** [Macdonald RL, Weir BK.](#) [Related Articles, Links](#)



Cerebral vasospasm and free radicals.

Free Radic Biol Med. 1994 May;16(5):633-43. Review.

PMID: 8026807 [PubMed - indexed for MEDLINE]

- ☐ **354:** [Kimura M, Cho JH, Lasker N, Aviv A.](#) [Related Articles, Links](#)



Differences in platelet calcium regulation between African Americans and Caucasians: implications for the predisposition of African Americans to essential hypertension.

J Hypertens. 1994 Feb;12(2):199-207.

PMID: 8021471 [PubMed - indexed for MEDLINE]

- ☐ **355:** [Tepel M, Bauer S, Kegel M, Raffelsiefer A, Wischniowski H, Zidek W.](#) [Related Articles, Links](#)



Increased cytosolic free sodium in platelets from patients with early-stage chronic renal failure.

Nephrol Dial Transplant. 1994;9(1):27-34.

PMID: 8177473 [PubMed - indexed for MEDLINE]

- ☐ **356:** [Levi AJ, Boyett MR, Lee CO.](#) [Related Articles, Links](#)



The cellular actions of digitalis glycosides on the heart.

Prog Biophys Mol Biol. 1994;62(1):1-54. Review. No abstract available.

PMID: 8085015 [PubMed - indexed for MEDLINE]

- ☐ **357:** [Cox DA, Matlib MA.](#) [Related Articles, Links](#)



Modulation of intramitochondrial free Ca2+ concentration by antagonists of Na(+)-Ca2+ exchange.

Trends Pharmacol Sci. 1993 Nov;14(11):408-13. Review.

PMID: 8296399 [PubMed - indexed for MEDLINE]

- ☐ **358:** [Schulze D, Kofuji P, Hadley R, Kirby MS, Kieval RS, Doering A, Niggli E, Lederer WJ.](#) [Related Articles, Links](#)



Sodium/calcium exchanger in heart muscle: molecular biology, cellular function, and its special role in excitation-contraction coupling.

Cardiovasc Res. 1993 Oct;27(10):1726-34. Review.

PMID: 8275517 [PubMed - indexed for MEDLINE]

- ☐ **359:** [Noble D, Bett G.](#) [Related Articles, Links](#)





















Reconstructing the heart: a challenge for integrative physiology.

Cardiovasc Res. 1993 Oct;27(10):1701-12. No abstract available.

PMID: 8275516 [PubMed - indexed for MEDLINE]

- ☐ **360:** [Ishida T, Matsuura H, Ishida-Kainouchi M, Ozono R, Watanabe M, Kajiyama G, Oshima T.](#) Related Articles, Links
Na(+)-Ca²⁺ exchange modulates Ca²⁺ handling of human platelets by altering intracellular Ca²⁺ store size.
J Hypertens. 1993 Oct;11(10):1089-95.
PMID: 8258673 [PubMed - indexed for MEDLINE]
- ☐ **361:** [Marlier LN, Zheng T, Tang J, Grayson DR.](#) Related Articles, Links
Regional distribution in the rat central nervous system of a mRNA encoding a portion of the cardiac sodium/calcium exchanger isolated from cerebellar granule neurons.
Brain Res Mol Brain Res. 1993 Oct;20(1-2):21-39.
PMID: 8255180 [PubMed - indexed for MEDLINE]
- ☐ **362:** [Donnadieu E, Trautmann A.](#) Related Articles, Links
Is there a Na⁺/Ca²⁺ exchanger in macrophages and in lymphocytes?
Pflugers Arch. 1993 Sep;424(5-6):448-55.
PMID: 8255728 [PubMed - indexed for MEDLINE]
- ☐ **363:** [Mene P, Pugliese F, Cinotti GA.](#) Related Articles, Links
Cyclic nucleotides inhibit Na⁺/Ca²⁺ exchange in cultured human mesangial cells.
Exp Nephrol. 1993 Jul-Aug;1(4):245-52.
PMID: 7521769 [PubMed - indexed for MEDLINE]
- ☐ **364:** [Barry WH.](#) Related Articles, Links
Is "fuzzy space" necessary for Ca²⁺ extrusion on the Na(+)-Ca⁺ exchanger in cardiac myocytes?
J Mol Cell Cardiol. 1993 Jun;25(6):641-3; discussion 645-6. No abstract available.
PMID: 8411189 [PubMed - indexed for MEDLINE]
- ☐ **365:** [Langer GA, Peskoff A, Post JA.](#) Related Articles, Links
How does the Na(+)-Ca²⁺ exchanger work in the intact cardiac cell?
J Mol Cell Cardiol. 1993 Jun;25(6):637-9. No abstract available.
PMID: 8411188 [PubMed - indexed for MEDLINE]
- ☐ **366:** [Katnik C, Nelson DJ.](#) Related Articles, Links
Platelet activating factor-induced increase in cytosolic calcium and transmembrane current in human macrophages.
J Membr Biol. 1993 Jun;134(3):213-24.
PMID: 8411123 [PubMed - indexed for MEDLINE]
- ☐ **367:** [Barry WH, Bridge JH.](#) Related Articles, Links
Intracellular calcium homeostasis in cardiac myocytes.
Circulation. 1993 Jun;87(6):1806-15. Review.
PMID: 8389258 [PubMed - indexed for MEDLINE]
- ☐ **368:** [Kimura M, Aviv A, Reeves JP.](#) Related Articles, Links
K(+)-dependent Na⁺/Ca²⁺ exchange in human platelets.
J Biol Chem. 1993 Apr 5;268(10):6874-7.
PMID: 8463216 [PubMed - indexed for MEDLINE]
- ☐ **369:** [Pijuan V, Zhuang Y, Smith L, Kroupis C, Condrescu M, Aceto JF, Reeves JP, Smith JB.](#) Related Articles, Links

-  Stable expression of the cardiac sodium-calcium exchanger in CHO cells.
Am J Physiol. 1993 Apr;264(4 Pt 1):C1066-74.
PMID: 8476012 [PubMed - indexed for MEDLINE]
- ☐ **370:** [Furman I, Cook O, Kasir J, Rahamimoff H.](#) [Related Articles, Links](#)
-  Cloning of two isoforms of the rat brain Na(+)-Ca2+ exchanger gene and their functional expression in HeLa cells.
FEBS Lett. 1993 Mar 15;319(1-2):105-9.
PMID: 8454039 [PubMed - indexed for MEDLINE]
- ☐ **371:** [Wacholtz MC, Cragoe EJ Jr, Lipsky PE.](#) [Related Articles, Links](#)
-  Delineation of the role of a Na+/Ca2+ exchanger in regulating intracellular Ca2+ in T cells.
Cell Immunol. 1993 Mar;147(1):95-109.
PMID: 8462115 [PubMed - indexed for MEDLINE]
- ☐ **372:** [Kimura M, Aviv A.](#) [Related Articles, Links](#)
-  Regulation of the cytosolic pH set point for activation of the Na+/H+ antiport in human platelets: the roles of the Na+/Ca2+ exchange, the Na(+)-K(+)-2Cl- cotransport and cellular volume.
Pflugers Arch. 1993 Mar;422(6):585-90.
PMID: 8385772 [PubMed - indexed for MEDLINE]
- ☐ **373:** [Waxman SG, Ritchie JM.](#) [Related Articles, Links](#)
-  Molecular dissection of the myelinated axon.
Ann Neurol. 1993 Feb;33(2):121-36. Review.
PMID: 7679565 [PubMed - indexed for MEDLINE]
- ☐ **374:** [Low W, Kasir J, Rahamimoff H.](#) [Related Articles, Links](#)
-  Cloning of the rat heart Na(+)-Ca2+ exchanger and its functional expression in HeLa cells.
FEBS Lett. 1993 Jan 18;316(1):63-7.
PMID: 8422940 [PubMed - indexed for MEDLINE]
- ☐ **375:** [McDaniel LD, Lederer WJ, Kofuji P, Schulze DH, Kieval R, Schultz RA.](#) [Related Articles, Links](#)
-  Mapping of the human cardiac Na+/Ca2+ exchanger gene (NCX1) by fluorescent in situ hybridization to chromosome region 2p22-->p23.
Cytogenet Cell Genet. 1993;63(3):192-3.
PMID: 8485996 [PubMed - indexed for MEDLINE]
- ☐ **376:** [Ransom BR, Waxman SG, Stys PK.](#) [Related Articles, Links](#)
-  Anoxic injury of central myelinated axons: ionic mechanisms and pharmacology.
Res Publ Assoc Res Nerv Ment Dis. 1993;71:121-51. Review. No abstract available.
PMID: 8417464 [PubMed - indexed for MEDLINE]
- ☐ **377:** [Ponce-Hornos JE, Bonazzola P, Taquini AC.](#) [Related Articles, Links](#)
-  [Energetics of ionic behavior in heart muscle contraction. Physiologic and physiopathologic aspects]
Medicina (B Aires). 1993;53(5):445-58. Review. Spanish.
PMID: 8201934 [PubMed - indexed for MEDLINE]
- [Decollogne S, Bertrand IB, Ascensio M, Drubaix I, Lelievre](#)

- ☐ **378:** [LG.](#) Related Articles, Links
 **Na⁺, K⁽⁺⁾-ATPase and Na⁺/Ca²⁺ exchange isoforms: physiological and pathophysiological relevance.**
J Cardiovasc Pharmacol. 1993;22 Suppl 2:S96-8. Review.
PMID: 7508043 [PubMed - indexed for MEDLINE]
- ☐ **379:** [Kofuji P, Hadley RW, Kieval RS, Lederer WJ, Schulze DH.](#) Related Articles, Links
 **Expression of the Na-Ca exchanger in diverse tissues: a study using the cloned human cardiac Na-Ca exchanger.**
Am J Physiol. 1992 Dec;263(6 Pt 1):C1241-9.
PMID: 1476165 [PubMed - indexed for MEDLINE]
- ☐ **380:** [Valant PA, Adjei PN, Haynes DH.](#) Related Articles, Links
 **Rapid Ca²⁺ extrusion via the Na⁺/Ca²⁺ exchanger of the human platelet.**
J Membr Biol. 1992 Oct;130(1):63-82.
PMID: 1469706 [PubMed - indexed for MEDLINE]
- ☐ **381:** [Wacholtz MC, Cragoe EJ Jr, Lipsky PE.](#) Related Articles, Links
 **A Na⁽⁺⁾-dependent Ca²⁺ exchanger generates the sustained increase in intracellular Ca²⁺ required for T cell activation.**
J Immunol. 1992 Sep 15;149(6):1912-20.
PMID: 1387665 [PubMed - indexed for MEDLINE]
- ☐ **382:** [Varro A, Papp JG.](#) Related Articles, Links
 **The impact of single cell voltage clamp on the understanding of the cardiac ventricular action potential.**
Cardioscience. 1992 Sep;3(3):131-44. Review.
PMID: 1384746 [PubMed - indexed for MEDLINE]
- ☐ **383:** [Philipson KD, Nicoll DA.](#) Related Articles, Links
 **Sodium-calcium exchange.**
Curr Opin Cell Biol. 1992 Aug;4(4):678-83. Review.
PMID: 1419049 [PubMed - indexed for MEDLINE]
- ☐ **384:** [Kiang JG, Koenig ML, Smallridge RC.](#) Related Articles, Links
 **Heat shock increases cytosolic free Ca²⁺ concentration via Na⁽⁺⁾-Ca²⁺ exchange in human epidermoid A 431 cells.**
Am J Physiol. 1992 Jul;263(1 Pt 1):C30-8.
PMID: 1636682 [PubMed - indexed for MEDLINE]
- ☐ **385:** [Komuro I, Wenninger KE, Philipson KD, Izumo S.](#) Related Articles, Links
 **Molecular cloning and characterization of the human cardiac Na⁺/Ca²⁺ exchanger cDNA.**
Proc Natl Acad Sci U S A. 1992 May 15;89(10):4769-73.
PMID: 1374913 [PubMed - indexed for MEDLINE]
- ☐ **386:** [Smith TF, Sanchez-Legrand F, McKean LP, Kutner MH, Cragoe EJ Jr, Eaton DC.](#) Related Articles, Links
 **Role of sodium in mediator release from human basophils.**
J Allergy Clin Immunol. 1992 May;89(5):978-86.
PMID: 1374773 [PubMed - indexed for MEDLINE]
- ☐ **387:** [Shieh BH, Xia Y, Sparkes RS, Klisak I, Lusic AJ, Nicoll DA.](#) Related Articles, Links

Philipson KD.



Mapping of the gene for the cardiac sarcolemmal Na(+)-Ca²⁺ exchanger to human chromosome 2p21-p23.

Genomics. 1992 Mar;12(3):616-7.

PMID: 1559714 [PubMed - indexed for MEDLINE]

☐ **388:** Kim-Lee MH, Stokes BT, Yates AJ.

Related Articles, Links



Reperfusion paradox: a novel mode of glial cell injury.

Glia. 1992;5(1):56-64.

PMID: 1531810 [PubMed - indexed for MEDLINE]

☐ **389:** Blaustein MP, Ambesi A, Bloch RJ, Goldman WF, Juhaszova M, Lindenmayer GE, Weiss DN.

Related Articles, Links



Regulation of vascular smooth muscle contractility: roles of the sarcoplasmic reticulum (SR) and the sodium/calcium exchanger.

Jpn J Pharmacol. 1992;58 Suppl 2:107P-114P. Review. No abstract available.

PMID: 1507528 [PubMed - indexed for MEDLINE]

☐ **390:** Michaelis EK, Michaelis ML.

Related Articles, Links



Molecular aspects of glutamate receptors and sodium-calcium exchange carriers in mammalian brain: implications for neuronal development and degeneration.

Neurochem Res. 1992 Jan;17(1):29-34. Review.

PMID: 1371600 [PubMed - indexed for MEDLINE]

☐ **391:** Holubarsch C.

Related Articles, Links



[Biochemical changes and disorders of electromechanical coupling in chronic heart failure]

Z Kardiol. 1992;81 Suppl 4:17-21. Review. German.

PMID: 1290294 [PubMed - indexed for MEDLINE]

☐ **392:** Lafond J, Leclerc M, Brunette MG.

Related Articles, Links



Characterization of calcium transport by basal plasma membranes from human placental syncytiotrophoblast.

J Cell Physiol. 1991 Jul;148(1):17-23.

PMID: 1650372 [PubMed - indexed for MEDLINE]

☐ **393:** Colvin RA, Bennett JW, Colvin SL, Allen RA, Martinez J, Miner GD.

Related Articles, Links



Na⁺/Ca²⁺ exchange activity is increased in Alzheimer's disease brain tissues.

Brain Res. 1991 Mar 8;543(1):139-47.

PMID: 1647256 [PubMed - indexed for MEDLINE]

☐ **394:** Williams JM, Abramovich DR, Dacke CG, Mayhew TM, Page KR.

Related Articles, Links



Inhibitor action on placental calcium transport.

Calcif Tissue Int. 1991 Jan;48(1):7-12.

PMID: 1826093 [PubMed - indexed for MEDLINE]

☐ **395:** Mullins LJ.











Related Articles, Links



Is stoichiometry constant in Na-Ca exchange?

Ann N Y Acad Sci. 1991;639:96-8. No abstract available.

PMID: 1785898 [PubMed - indexed for MEDLINE]

- ☐ **396:** [Khananshvili D.](#) Related Articles, Links
 Mechanism of partial reactions in the cardiac Na(+)-Ca²⁺ exchange system.
Ann N Y Acad Sci. 1991;639:85-95. Review. No abstract available.
PMID: 1785897 [PubMed - indexed for MEDLINE]
- ☐ **397:** [Hoenig M, Culberson LH, Wheeler CA, Ferguson DC.](#) Related Articles, Links
 Characterization of Na(+)-Ca²⁺ exchange in the beta cell.
Ann N Y Acad Sci. 1991;639:657-9. Review. No abstract available.
PMID: 1785893 [PubMed - indexed for MEDLINE]
- ☐ **398:** [Herchuelz A, Plasman PO.](#) Related Articles, Links
 Sodium-calcium exchange in the pancreatic B cell.
Ann N Y Acad Sci. 1991;639:642-56. Review. No abstract available.
PMID: 1785892 [PubMed - indexed for MEDLINE]
- ☐ **399:** [Haynes DH, Valant PA, Adjei PN.](#) Related Articles, Links
 Calcium extrusion by the sodium-calcium exchanger of the human platelet.
Ann N Y Acad Sci. 1991;639:592-603. No abstract available.
PMID: 1785888 [PubMed - indexed for MEDLINE]
- ☐ **400:** [Windhager EE, Frindt G, Milovanovic S.](#) Related Articles, Links
 The role of Na-Ca exchange in renal epithelia. An overview.
Ann N Y Acad Sci. 1991;639:577-91. Review. No abstract available.
PMID: 1785887 [PubMed - indexed for MEDLINE]
- ☐ **401:** [Matlib MA.](#) Related Articles, Links
 Role of sarcolemmal membrane sodium-calcium exchange in vascular smooth muscle tension.
Ann N Y Acad Sci. 1991;639:531-42. Review.
PMID: 1785880 [PubMed - indexed for MEDLINE]
- ☐ **402:** [Aaronson PI, Poston L, Woolfson RG, Smirnov SV.](#) Related Articles, Links
 Evidence for Na-Ca exchange in human resistance arteries.
Ann N Y Acad Sci. 1991;639:521-30. No abstract available.
PMID: 1785879 [PubMed - indexed for MEDLINE]
- ☐ **403:** [Smith JB, Lyu RM, Smith L.](#) Related Articles, Links
 Sodium-calcium exchange in aortic myocytes and renal epithelial cells. Dependence on metabolic energy and intracellular sodium.
Ann N Y Acad Sci. 1991;639:505-20. Review. No abstract available.
PMID: 1785878 [PubMed - indexed for MEDLINE]
- ☐ **404:** [Colvin RA, Bennett JW, Colvin SL.](#) Related Articles, Links
 Na(+)-Ca²⁺ exchange activity is increased in Alzheimer's disease brain tissues.
Ann N Y Acad Sci. 1991;639:325-7. No abstract available.
PMID: 1785858 [PubMed - indexed for MEDLINE]
- ☐ **405:** [Mills LR.](#) Related Articles, Links
 Neuron-specific and state-specific differences in calcium regulation. Their role in the development of neuronal architecture.

Ann N Y Acad Sci. 1991;639:312-24. Review. No abstract available.
PMID: 1785857 [PubMed - indexed for MEDLINE]

- ☐ **406:** Yau KW, Nakatani K, Tamura T. Related Articles, Links



Sodium-calcium exchange and phototransduction in retinal photoreceptors.

Ann N Y Acad Sci. 1991;639:275-84. Review. No abstract available.
PMID: 1785854 [PubMed - indexed for MEDLINE]

- ☐ **407:** DiPolo R, Beauge L. Related Articles, Links



Regulation of Na-Ca exchange. An overview.

Ann N Y Acad Sci. 1991;639:100-11. Review. No abstract available.
PMID: 1785834 [PubMed - indexed for MEDLINE]

- ☐ **408:** Dale WE, Simchowicz L. Related Articles, Links



The role of Na(+)-Ca²⁺ exchange in human neutrophil function.

Ann N Y Acad Sci. 1991;639:616-30. Review. No abstract available.
PMID: 1664709 [PubMed - indexed for MEDLINE]

- ☐ **409:** Mene P, Pugliese F, Faraggiana T, Cinotti GA. Related Articles, Links



Identification and characteristics of a Na⁺/Ca²⁺ exchanger in cultured human mesangial cells.

Kidney Int. 1990 Dec;38(6):1199-205.
PMID: 2074662 [PubMed - indexed for MEDLINE]

- ☐ **410:** Hoel G, Michaelis ML, Freed WJ, Kleinman JE. Related Articles, Links



Characterization of Na(+)-Ca²⁺ exchange activity in plasma membrane vesicles from postmortem human brain.

Neurochem Res. 1990 Sep;15(9):881-7.
PMID: 1703282 [PubMed - indexed for MEDLINE]

- ☐ **411:** Strehler EE. Related Articles, Links



Plasma membrane Ca²⁺ pumps and Na⁺/Ca²⁺ exchangers.

Semin Cell Biol. 1990 Aug;1(4):283-95. Review.
PMID: 2151738 [PubMed - indexed for MEDLINE]

- ☐ **412:** [No authors listed] Related Articles, Links



Na(+)-Ca²⁺ exchanger and cardiac contraction.

Lancet. 1990 Jul 28;336(8709):219-20. No abstract available.
PMID: 1973777 [PubMed - indexed for MEDLINE]

- ☐ **413:** Gruver CL, Katz AM, Messineo FC. Related Articles, Links



Canine cardiac sarcolemmal vesicles demonstrate rapid initial Na(+)-Ca²⁺ exchange activity.

Circ Res. 1990 May;66(5):1171-7.
PMID: 2335019 [PubMed - indexed for MEDLINE]











- ☐ **414:** Chapman R. Related Articles, Links



A rise in intracellular sodium would seem to predispose the heart to the calcium paradox.

J Mol Cell Cardiol. 1990 May;22(5):503-5. No abstract available.
PMID: 2167385 [PubMed - indexed for MEDLINE]

- ☐ **415:** Ruigrok TJ. Related Articles, Links

-  Is an increase of intracellular Na⁺ during Ca²⁺ depletion essential for the occurrence of the calcium paradox?
J Mol Cell Cardiol. 1990 May;22(5):499-501. No abstract available.
PMID: 2167384 [PubMed - indexed for MEDLINE]
- ☐ **416:** Philipson KD. Related Articles, Links
-  The cardiac Na⁽⁺⁾-Ca²⁺ exchanger: dependence on membrane environment.
Cell Biol Int Rep. 1990 Apr;14(4):305-9. Review. No abstract available.
PMID: 2191788 [PubMed - indexed for MEDLINE]
- ☐ **417:** Heilmann C, Spamer C, Gerok W. Related Articles, Links
-  Aspects of hepatic calcium metabolism.
Prog Liver Dis. 1990;9:261-79. Review. No abstract available.
PMID: 2156295 [PubMed - indexed for MEDLINE]
- ☐ **418:** Smith JB, Zheng T, Smith L. Related Articles, Links
-  Relationship between cytosolic free Ca²⁺ and Na⁺-Ca²⁺ exchange in aortic muscle cells.
Am J Physiol. 1989 Jan;256(1 Pt 1):C147-54.
PMID: 2912132 [PubMed - indexed for MEDLINE]
- ☐ **419:** Parker JC. Related Articles, Links
-  Sodium-calcium and sodium-proton exchangers in red blood cells.
Methods Enzymol. 1989;173:292-300. No abstract available.
PMID: 2550727 [PubMed - indexed for MEDLINE]
- ☐ **420:** Schnetkamp PP. Related Articles, Links
-  Na-Ca or Na-Ca-K exchange in rod photoreceptors.
Prog Biophys Mol Biol. 1989;54(1):1-29. Review. No abstract available.
PMID: 2484986 [PubMed - indexed for MEDLINE]
- ☐ **421:** Rengasamy A, Feinberg H. Related Articles, Links
-  Sodium-calcium exchange in platelet plasma membrane vesicles.
Adv Exp Med Biol. 1988;232:105-8. No abstract available.
PMID: 3213678 [PubMed - indexed for MEDLINE]
- ☐ **422:** Hermesmeyer RK. Related Articles, Links
-  Vascular muscle membrane cation mechanisms and total peripheral resistance.
Hypertension. 1987 Nov;10(5 Pt 2):I20-2. Review.
PMID: 2445679 [PubMed - indexed for MEDLINE]
- ☐ **423:** Letarte M, Quackenbush EJ, Bauml R, Michalak M. Related Articles, Links
-  Correlations between the 44D7 antigenic complex and the plasma membrane Na⁺-Ca²⁺ exchanger.
Biochem Cell Biol. 1986 Nov;64(11):1160-9.
PMID: 3828108 [PubMed - indexed for MEDLINE]
- ☐ **424:** Michalak M, Quackenbush EJ, Letarte M. Related Articles, Links
-  Inhibition of Na⁺/Ca²⁺ exchanger activity in cardiac and skeletal muscle sarcolemmal vesicles by monoclonal antibody 44D7.
J Biol Chem. 1986 Jan 5;261(1):92-5.
PMID: 2416754 [PubMed - indexed for MEDLINE]

☐ **425:** [Carafoli E.](#)[Related Articles, Links](#)

The homeostasis of calcium in heart cells.
J Mol Cell Cardiol. 1985 Mar;17(3):203-12.
PMID: 2943901 [PubMed - indexed for MEDLINE]

☐ **426:** [Philipson KD.](#)[Related Articles, Links](#)

Sodium-calcium exchange in plasma membrane vesicles.
Annu Rev Physiol. 1985;47:561-71. Review. No abstract available.
PMID: 3888080 [PubMed - indexed for MEDLINE]

☐ **427:** [Garrick R, Ziyadeh FN, Jorkasky D, Goldfarb S.](#)[Related Articles, Links](#)

Bartter's syndrome: a unifying hypothesis.
Am J Nephrol. 1985;5(5):379-84. Review.
PMID: 2998188 [PubMed - indexed for MEDLINE]

☐ **428:** [Shamoo AE, Ambudkar IS.](#)[Related Articles, Links](#)

Regulation of calcium transport in cardiac cells.
Can J Physiol Pharmacol. 1984 Jan;62(1):9-22. Review.
PMID: 6143603 [PubMed - indexed for MEDLINE]

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=> s human sodium-calcium exchanger

14 FILES SEARCHED...
25 FILES SEARCHED...
35 FILES SEARCHED...
51 FILES SEARCHED...
62 FILES SEARCHED...
71 FILES SEARCHED...

L1 29 HUMAN SODIUM-CALCIUM EXCHANGER

=> DUP REM L1

DUPLICATE IS NOT AVAILABLE IN 'ADISINSIGHT, ADISNEWS, BIOCOMMERCE, DGENE, DRUGMONOG2, FEDRIP, FOREGE, GENBANK, IMSPRODUCT, IMSRESEARCH, KOSMET, MEDICONF, NUTRACEUT, PCTGEN, PHAR, PHARMAML, PROUSDDR, PS, RDISCLOSURE, SYNTHLINE'.

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L2 26 DUP REM L1 (3 DUPLICATES REMOVED)

=> D L2 1-26

L2 ANSWER 1 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:120883 CAPLUS

DN 140:176296

TI cDNA and protein sequences of human potassium-dependent sodium-calcium exchanger and its uses in therapeutics and drug screening

IN Nozawa, Katsura; Mochizuki, Shinobu

PA Yamanouchi Pharmaceutical Co., Ltd., Japan

SO PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------------------|----------|
| PI | WO 2004013173 | A1 | 20040212 | WO 2003-JP309732 | 20030731 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | CA 2480427 | AA | 20040212 | CA 2003-2480427 | 20030731 |
| PRAI | JP 2002-225114 | A | 20020801 | | |
| | JP 2003-182989 | A | 20030626 | | |
| | WO 2003-JP9732 | W | 20030731 | | |

L2 ANSWER 2 OF 26 USPATFULL on STN

AN 2004:69593 USPATFULL

TI Fusion proteins comprising DP-178 and other viral fusion inhibitor peptides useful for treating aids

IN Bolognesi, Dani Paul, Durham, NC, UNITED STATES
Matthews, Thomas James, Durham, NC, UNITED STATES
Wild, Carl T., Durham, NC, UNITED STATES
Barney, Shawn O'apos, Lin, Cary, NC, UNITED STATES
Lambert, Dennis Michael, Cary, NC, UNITED STATES
Petteway, Stephen Robert, Cary, NC, UNITED STATES
Langlois, Alphonse J., Durham, NC, UNITED STATES
PA Duke University (U.S. corporation)
Trimeris, Inc. (U.S. corporation)
PI US 2004052820 A1 20040318
AI US 2002-267748 A1 20021008 (10)
RLI Continuation of Ser. No. US 1995-484223, filed on 7 Jun 1995, PENDING
Division of Ser. No. US 1995-470896, filed on 6 Jun 1995, GRANTED, Pat.
No. US 6479055 Continuation-in-part of Ser. No. US 1994-360107, filed on
20 Dec 1994, GRANTED, Pat. No. US 6017536 Continuation-in-part of Ser.
No. US 1994-255208, filed on 7 Jun 1994, GRANTED, Pat. No. US 6440656
Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993,
GRANTED, Pat. No. US 5464933
DT Utility
FS APPLICATION
LN.CNT 40442
INCL INCLM: 424/208.100
INCLS: 424/188.100; 530/350.000; 424/204.100; 530/300.000
NCL NCLM: 424/208.100
NCLS: 424/188.100; 530/350.000; 424/204.100; 530/300.000
IC [7]
ICM: A61K039-21
ICS: C07K014-16; A61K039-12; C07K002-00; C07K004-00; C07K005-00;
C07K007-00; C07K014-00; C07K016-00; C07K017-00; A61K038-00; C07K001-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 3 OF 26 USPATFULL on STN
AN 2004:44245 USPATFULL
TI Nucleic acids encoding DP-178 and other viral fusion inhibitor peptides
useful for treating aids
IN Bolognesi, Dani Paul, Durham, NC, UNITED STATES
Matthews, Thomas James, Durham, NC, UNITED STATES
Wild, Carl T., Durham, NC, UNITED STATES
PA Duke University (U.S. corporation)
PI US 2004033235 A1 20040219
AI US 2003-267682 A1 20030106 (10)
RLI Continuation of Ser. No. US 1995-484223, filed on 7 Jun 1995, PENDING
Division of Ser. No. US 1995-470896, filed on 6 Jun 1995, GRANTED, Pat.
No. US 6479055 Continuation-in-part of Ser. No. US 1994-360107, filed on
20 Dec 1994, GRANTED, Pat. No. US 6017536 Continuation-in-part of Ser.
No. US 1994-255208, filed on 7 Jun 1994, GRANTED, Pat. No. US 6440656
Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993,
GRANTED, Pat. No. US 5464933
DT Utility
FS APPLICATION
LN.CNT 59510
INCL INCLM: 424/186.100
INCLS: 424/188.100; 530/350.000; 424/208.100; 424/187.100
NCL NCLM: 424/186.100
NCLS: 424/188.100; 530/350.000; 424/208.100; 424/187.100
IC [7]
ICM: A61K039-21
ICS: A61K039-12; C07K014-16; C07K014-10; C07K014-05; C07K014-11
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 4 OF 26 USPATFULL on STN
AN 2004:301902 USPATFULL
TI Methods for inhibition of membrane fusion-associated events, including
HIV transmission
IN Bolognesi, Dani Paul, Durham, NC, United States
Matthews, Thomas James, Durham, NC, United States
Wild, Carl T., Durham, NC, United States
PA Duke University, Durham, NC, United States (U.S. corporation)
PI US 6824783 B1 20041130
AI US 1995-487266 19950607 (8)
RLI Division of Ser. No. US 1995-470896, filed on 6 Jun 1995, now patented,
Pat. No. US 6479055 Continuation-in-part of Ser. No. US 1994-360107,

filed on 20 Dec 1994, now patented, Pat. No. US 6017536
Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994,
now patented, Pat. No. US 5440656 Continuation-in-part of Ser. No. US
1993-73028, filed on 7 Jun 1993, now patented, Pat. No. US 5464933

DT Utility
FS GRANTED
LN.CNT 25013
INCL INCLM: 424/188.100
INCLS: 424/208.100; 435/005.000; 530/360.000
NCL NCLM: 424/188.100
NCLS: 424/208.100; 435/005.000; 530/360.000
IC [7]
ICM: A61K039-21
EXF 435/5; 530/300; 530/350
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 5 OF 26 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 2005:48406 BIOSIS
DN PREV200500049773
TI Down-regulation of sarcolipin mRNA expression in chronic atrial
fibrillation.
AU Uemura, N.; Ohkusa, T.; Hamano, K.; Nakagome, M.; Hori, H.; Shimizu, M.;
Matsuzaki, M.; Mochizuki, S.; Minamisawa, S. [Reprint Author]; Ishikawa,
Y.
CS Grad Sch MedDept PhysiolKanazawa Ku, Yokohama City Univ, 3-9 Fukuura,
Yokohama, Kanagawa, 2360004, Japan
sminamis@med.yokohama-cu.ac.jp
SO European Journal of Clinical Investigation, (November 2004) Vol. 34, No.
11, pp. 723-730. print.
CODEN: EJCIB8. ISSN: 0014-2972.
DT Article
LA English
ED Entered STN: 26 Jan 2005
Last Updated on STN: 26 Jan 2005

L2 ANSWER 6 OF 26 USPATFULL on STN
AN 2003:312209 USPATFULL
TI Novel 18607, 15603, 69318, 12303, 48000, 52920, 5433, 38554, 57301,
58324, 55063, 52991, 59914, 59921 and 33751 molecules and uses therefor
IN Glucksmann, Maria A., Lexington, MA, UNITED STATES
Curtis, Rory A.J., Ashland, MA, UNITED STATES
Lora, Jose M., Arlington, MA, UNITED STATES
Galvin, Katherine M., Jamaica Plain, MA, UNITED STATES
Silos-Santiago, Inmaculada, Del Mar, CA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2003219806 A1 20031127
AI US 2003-391399 A1 20030318 (10)
RLI Continuation-in-part of Ser. No. US 2001-789481, filed on 20 Feb 2001,
PENDING Continuation-in-part of Ser. No. US 2000-634669, filed on 8 Aug
2000, ABANDONED Continuation-in-part of Ser. No. US 2000-583373, filed
on 31 May 2000, ABANDONED Continuation-in-part of Ser. No. US
2000-510706, filed on 22 Feb 2000, ABANDONED Continuation-in-part of
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No. US 2001-957683, filed on 19 Sep 2001, ABANDONED Continuation-in-part
of Ser. No. US 2001-942447, filed on 29 Aug 2001, ABANDONED
Continuation-in-part of Ser. No. US 2002-62937, filed on 31 Jan 2002,
PENDING Continuation-in-part of Ser. No. US 2002-255532, filed on 26 Sep
2002, PENDING
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US 2001-275078P 20010312 (60)
US 2000-195734P 20000407 (60)
US 2000-214176P 20000626 (60)
US 2001-322983P 20010917 (60)
US 2001-275172P 20010312 (60)
US 2000-233537P 20000919 (60)
US 2000-229036P 20000831 (60)

US 2001-267076P 20010201 (60)
US 2001-325854P 20010927 (60)
DT Utility
FS APPLICATION
LN.CNT 19893
INCL INCLM: 435/006.000
INCLS: 435/069.100; 435/183.000; 435/320.100; 435/325.000; 514/012.000;
530/388.100; 530/350.000; 536/023.200
NCL NCLM: 435/006.000
NCLS: 435/069.100; 435/183.000; 435/320.100; 435/325.000; 514/012.000;
530/388.100; 530/350.000; 536/023.200
IC [7]
ICM: C12Q001-68
ICS: C07H021-04; A61K038-17; C07K014-47; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 7 OF 26 USPATFULL on STN
AN 2003:113015 USPATFULL
TI 96829, a human transporter family member and uses therefor
IN Curtis, Rory A.J., Framingham, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2003077748 A1 20030424
AI US 2002-264104 A1 20021003 (10)
PRAI US 2001-326906P 20011003 (60)
DT Utility
FS APPLICATION
LN.CNT 4769
INCL INCLM: 435/069.100
INCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500
NCL NCLM: 435/069.100
NCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500
IC [7]
ICM: C12P021-02
ICS: C12N005-06; C07K014-47; C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 8 OF 26 USPATFULL on STN
AN 2003:78428 USPATFULL
TI Methods of identifying the activity of gene products
IN Blume, Arthur J., Annandale, NJ, UNITED STATES
Goldstein, Neil, Maplewood, NJ, UNITED STATES
Pillutla, Renuka, Bridgewater, NJ, UNITED STATES
Hsiao, Ku-Chuan, Easton, PA, UNITED STATES
Prendergast, John, Lawrenceville, NJ, UNITED STATES
PI US 2003054348 A1 20030320
AI US 2001-852455 A1 20010509 (9)
PRAI US 2000-202912P 20000509 (60)
DT Utility
FS APPLICATION
LN.CNT 1435
INCL INCLM: 435/006.000
INCLS: 435/007.100; 435/007.210
NCL NCLM: 435/006.000
NCLS: 435/007.100; 435/007.210
IC [7]
ICM: C12Q001-68
ICS: G01N033-53; G01N033-567
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 9 OF 26 USPATFULL on STN
AN 2003:40533 USPATFULL
TI Methods for the inhibition of epstein-barr virus transmission employing
anti-viral peptides capable of abrogating viral fusion and transmission
IN Barney, Shawn O'Lin, Cary, NC, United States
Lambert, Dennis Michael, Cary, NC, United States
Petteway, Stephen Robert, Cary, NC, United States
PA Trimeris, Inc., Durham, NC, United States (U.S. corporation)
PI US 6518013 B1 20030211
AI US 1995-485546 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994,
now patented, Pat. No. US 6017536 Continuation-in-part of Ser. No. US
1994-255208, filed on 7 Jun 1994 Continuation-in-part of Ser. No. US

1993-73028, filed on 7 Jun 1993, now patented, Pat. No. US 5464933
DT Utility
FS GRANTED
LN.CNT 24700
INCL INCLM: 435/005.000
INCLS: 424/230.100; 530/300.000; 530/324.000; 530/325.000; 530/326.000
NCL NCLM: 435/005.000
NCLS: 424/230.100; 530/300.000; 530/324.000; 530/325.000; 530/326.000
IC [7]
ICM: C12Q001-70
EXF 435/5; 530/300; 530/324-329; 530/350; 424/230.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 10 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:308886 CAPLUS
DN 139:301072
TI Clinical potential of sodium-calcium exchanger inhibitors as
antiarrhythmic agents
AU Pogwizd, Steven M.
CS Department of Medicine, University of Illinois at Chicago, Chicago, IL,
USA
SO Drugs (2003), 63(5), 439-452
CODEN: DRUGAY; ISSN: 0012-6667
PB Adis International Ltd.
DT Journal; General Review
LA English
RE.CNT 110 THERE ARE 110 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 11 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
AN 2003:450973 CAPLUS
DN 139:2086
TI Protein and cDNA sequences of 8.8-kilodalton ***human***
sodium - ***calcium*** ***exchanger*** -like protein and
their therapeutic uses
IN Mao, Yumin; Xie, Yi
PA Bode Gene Development Co., Ltd., Shanghai, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 33 pp.
CODEN: CNXXEV
DT Patent
LA Chinese

FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE

PI CN 1361154 A 20020731 CN 2000-135949 20001226
PRAI CN 2000-135949 20001226

L2 ANSWER 12 OF 26 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 2
AN 10188601 IFIPAT;IFIUDB;IFICDB
TI 69318, A ***HUMAN*** ***SODIUM*** / ***CALCIUM***
EXCHANGER (TRANSPORTER) FAMILY MEMBER AND USES THEREFOR;
NUCLEOTIDE SEQUENCES CODING TRANSPORT PROTEIN FOR USE IN THE TREATMENT OF
NERVOUS SYSTEM, CARDIOVASCULAR, CELLULAR PROLIFERATIVE AND/OR
DIFFERENTIATIVE, IMMUNE, INFLAMMATORY, HEMATOPOIETIC, PAIN OR METABOLIC
DISORDERS
IN Curtis Rory A J
PA Millennium Pharmaceuticals Inc (41994)
PI US 2002132303 A1 20020919
AI US 2002-94214 20020308
PRAI US 2001-275078P 20010312 (Provisional)
FI US 2002132303 20020919
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 22
GI 1 Figure(s).

FIG. 1 depicts a hydropathy plot of human 69318. Relatively hydrophobic residues are shown above the dashed horizontal line, and relatively hydrophilic residues are below the dashed horizontal line. The cysteine residues (cys) are indicated by short vertical lines just below the hydropathy trace. The numbers corresponding to the amino acid sequence of human 69318 are indicated. Polypeptides of the invention include

fragments which include: all or part of a hydrophobic sequence, e.g., a sequence above the dashed line, e.g., the sequence from about amino acid 10 to 26, from about 168 to 192, and from about 486 to 509 of SEQ ID NO:2; all or part of a hydrophilic sequence, e. g., a sequence below the dashed line, e.g., the sequence from about amino acid 251 to 258, from about 271 to 281, and from about 346 to 357 of SEQ ID NO:2; a sequence which includes a Cys, or a glycosylation site.

L2 ANSWER 13 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:864380 CAPLUS

DN 137:346217

TI Targeting the reverse mode of the sodium/calcium exchanger for the treatment of optic neuropathy associated with glaucoma and ischemic optic neuropathy

IN Adorante, Joseph S.; Ehring, George R.; Kopper, Kara L.

PA Allergan, Inc., USA

SO U.S., 6 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|----------|
| PI | US 6479458 | B1 | 20021112 | US 2001-5829 | 20011108 |
| | WO 2003039573 | A1 | 20030515 | WO 2002-US32651 | 20021011 |
| | W: | | | | |
| | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | EP 1441751 | A1 | 20040804 | EP 2002-778535 | 20021011 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK | | | | |
| | BR 2002013947 | A | 20040831 | BR 2002-13947 | 20021011 |
| | JP 2005508374 | T2 | 20050331 | JP 2003-541864 | 20021011 |
| PRAI | US 2001-5829 | A | 20011108 | | |
| | WO 2002-US32651 | W | 20021011 | | |

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 14 OF 26 USPATFULL on STN

AN 2002:297296 USPATFULL

TI Methods for inhibition of membrane fusion-associated events, including respiratory syncytial virus transmission

IN Bolognesi, Dani Paul, Durham, NC, United States

Matthews, Thomas James, Durham, NC, United States

Wild, Carl T., Durham, NC, United States

Barney, Shawn O'Lin, Cary, NC, United States

Lambert, Dennis Michael, Cary, NC, United States

Petteway, Stephen Robert, Cary, NC, United States

Langlois, Alphonse J., Durham, NC, United States

PA Trimeris, Inc., Durham, NC, United States (U.S. corporation)

PI US 6479055 B1 20021112

AI US 1995-470896 19950606 (8)

RLI Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994, now patented, Pat. No. US 6017536 Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994 Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, now patented, Pat. No. US 5464933

DT Utility

FS GRANTED

LN.CNT 26553

INCL INCLM: 424/211.100

INCLS: 424/186.100; 530/324.000

NCL NCLM: 424/211.100

NCLS: 424/186.100; 530/324.000

IC [7]

ICM: A61K039-145

EXF 435/5; 435/240.2; 424/184.1-189.1; 424/204.1-211.1; 424/225.1;
424/227.1; 424/230.1; 514/1; 514/2; 530/324; 530/350; 530/826
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 15 OF 26 USPATFULL on STN
AN 2001:67794 USPATFULL
TI Human respiratory syncytial virus peptides with antifusogenic and
antiviral activities
IN Barney, Shawn O'Lin, Cary, NC, United States
Lambert, Dennis Michael, Cary, NC, United States
Petteway, Stephen Robert, Cary, NC, United States
PA Trimeris, Inc., Durham, NC, United States (U.S. corporation)
PI US 6228983 B1 20010508
AI US 1995-485264 19950607 (8)
RLI Division of Ser. No. US 1995-470896, filed on 6 Jun 1995
Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994
Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994
Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, now
patented, Pat. No. US 5464933
DT Utility
FS Granted
LN.CNT 32166
INCL INCLM: 530/300.000
INCLS: 530/324.000; 530/325.000; 530/326.000; 424/211.100; 424/186.100
NCL NCLM: 530/300.000
NCLS: 424/186.100; 424/211.100; 530/324.000; 530/325.000; 530/326.000
IC [7]
ICM: A61K038-00
EXF 530/350; 530/324-329; 530/300; 424/211.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 16 OF 26 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN
AN 2001:558807 BIOSIS
DN PREV200100558807
TI Genome search for QTL controlling pulse pressure: A practical application
of the unified Haseman-Elston algorithm.
AU Li, J. [Reprint author]; Niu, T. [Reprint author]; Rogus, J.; Yang, J.;
Schork, N. [Reprint author]; Fang, Z.; Xu, X. [Reprint author]
CS Prog Population Genetics, Harvard Sch Public Health, Boston, MA, USA
SO American Journal of Human Genetics, (October, 2001) Vol. 69, No. 4
Supplement, pp. 510. print.
Meeting Info.: 51st Annual Meeting of the American Society of Human
Genetics. San Diego, California, USA. October 12-16, 2001.
CODEN: AJHGAG. ISSN: 0002-9297.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
Conference; (Meeting Poster)
LA English
ED Entered STN: 5 Dec 2001
Last Updated on STN: 25 Feb 2002

L2 ANSWER 17 OF 26 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN
AN 1999:194919 BIOSIS
DN PREV199900194919
TI Gene expression of Na/Ca exchanger during development in human fetal
heart.
AU Qu, Y. [Reprint author]; Ghatpande, A. [Reprint author]; El-Sherif, N.
[Reprint author]; Boutjdir, M. [Reprint author]
CS V.A. Medical and SUNY/HS Centers, Brooklyn, NY, 11209, USA
SO Biophysical Journal, (Jan., 1999) Vol. 76, No. 1 PART 2, pp. A300. print.
Meeting Info.: Forty-third Annual Meeting of the Biophysical Society.
Baltimore, Maryland, USA. February 13-17, 1999.
CODEN: BIOJAU. ISSN: 0006-3495.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
Conference; (Meeting Poster)
LA English
ED Entered STN: 25 May 1999
Last Updated on STN: 25 May 1999

L2 ANSWER 18 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1997:24471 CAPLUS
DN 126:128406
TI Molecular characterization of the human airway smooth muscle Na+/Ca2+ exchanger
AU Pitt, Anthony; Knox, Alan J.
CS Department of Respiratory Medicine, City Hospital, Nottingham, UK
SO American Journal of Respiratory Cell and Molecular Biology (1996), 15(6), 726-730
CODEN: AJRBEL; ISSN: 1044-1549
PB American Lung Association
DT Journal
LA English
RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 19 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1996:432802 CAPLUS
DN 125:134211
TI Molecular biological studies of the cardiac sodium-calcium exchanger
AU Kraev, Alexander; Chumakov, Ilya; Carafoli, Ernesto
CS Laboratory of Biochemistry III, Swiss Federal Institute of Technology (ETH), Zurich, CH-8092, Switz.
SO Annals of the New York Academy of Sciences (1996), 779(Sodium-Calcium Exchange), 103-109
CODEN: ANYAA9; ISSN: 0077-8923
PB New York Academy of Sciences
DT Journal
LA English

L2 ANSWER 20 OF 26 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
DUPLICATE 3
AN 1990:519135 BIOSIS
DN PREV199090136411; BA90:136411
TI A TETRODOTOXIN AND MANGANESE INSENSITIVE SODIUM CURRENT IN DUCHENNE MUSCULAR DYSTROPHY.
AU BKAILLY G [Reprint author]; JASMIN G; TAUTU C; PROCHEK L; YAMAMOTO T; SCULPTOREANU A; PEYROW M; JACQUES D
CS DEP PHYSIOLOGY BIOPHYSICS, FAC MED, UNIVERSITY SHERBROOKE, SHERBROOKE, QUEBEC, CANADA J1H 5N4
SO Muscle and Nerve, (1990) Vol. 13, No. 10, pp. 939-948.
CODEN: MUNEDE. ISSN: 0148-639X.
DT Article
FS BA
LA ENGLISH
ED Entered STN: 19 Nov 1990
Last Updated on STN: 20 Nov 1990

L2 ANSWER 21 OF 26 DGENE COPYRIGHT 2005 The Thomson Corp on STN
AN ABB84483 Protein DGENE
TI New nucleic acid molecules designated 69318 encoding sodium/calcium exchanger family members, useful in screening assays, diagnostic assays, and treating conditions related to aberrant activity -
IN Curtis R A J
PA (MILL-N) MILLENIUM PHARM INC.
PI EP 1241260 A1 20020918 61p
AI EP 2002-251810 20020312
PRAI US 2001-275078 20010312
DT Patent
LA English
OS 2002-714944 [78]
CR N-PSDB: AAF88811; AAF88812
DESC ***Human*** ***sodium*** / ***calcium*** ***exchanger*** 69318.

L2 ANSWER 22 OF 26 DGENE COPYRIGHT 2005 The Thomson Corp on STN
AN AAF88812 DNA DGENE
TI New nucleic acid molecules designated 69318 encoding sodium/calcium exchanger family members, useful in screening assays, diagnostic assays, and treating conditions related to aberrant activity -
IN Curtis R A J
PA (MILL-N) MILLENIUM PHARM INC.

PI EP 1241260 A1 20020918 61p
 AI EP 2002-251810 20020312
 PRAI US 2001-275078 20010312
 DT Patent
 LA English
 OS 2002-714944 [78]
 CR P-PSDB: ABB84483
 DESC ***Human*** ***sodium*** / ***calcium*** ***exchanger***
 69318 coding region DNA.

L2 ANSWER 23 OF 26 DGENE COPYRIGHT 2005 The Thomson Corp on STN
 AN AAF88811 DNA DGENE
 TI New nucleic acid molecules designated 69318 encoding sodium/calcium
 exchanger family members, useful in screening assays, diagnostic assays,
 and treating conditions related to aberrant activity -

IN Curtis R A J
 PA (MILL-N) MILLENIUM PHARM INC.
 PI EP 1241260 A1 20020918 61p
 AI EP 2002-251810 20020312
 PRAI US 2001-275078 20010312
 DT Patent
 LA English
 OS 2002-714944 [78]
 CR P-PSDB: ABB84483
 DESC ***Human*** ***sodium*** / ***calcium*** ***exchanger***
 69318 DNA.

L2 ANSWER 24 OF 26 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC): AX537507 GenBank (R)
 GenBank ACC. NO. (GBN): AX537507
 GenBank VERSION (VER): AX537507.1 GI:25269333
 CAS REGISTRY NO. (RN): 493300-22-4
 SEQUENCE LENGTH (SQL): 1755
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 23 Nov 2002
 DEFINITION (DEF): Sequence 3 from Patent EP1241260.
 SOURCE: Homo sapiens (human)
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 291 a 538 c 484 g 442 t
 REFERENCE: 1
 AUTHOR (AU): Curtis, R.A.
 TITLE (TI): 69318, a ***human*** ***sodium*** /
 calcium ***exchanger*** (transporter
 protein) and uses therefor
 JOURNAL (SO): Patent: EP 1241260-A 3 18-SEP-2002; MILLENIUM
 PHARMACEUTICALS, INC. (US)

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| | | /codon-start=1 |
| | | /protein-id="CAD57495.1" |
| | | /db-xref="GI:25269334" |
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LTSALWINAAATEVVNLRSLGVV
FRLSNTVLGLTLLAWGNSIGDAFSDFTLARQGYF
RMAFSACFGGIIIFNILVGVLGCL
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SEQUENCE (SEQ) :

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121 ccagcttcag gtgtgaacca gacccccgtg gtagactgcc gcaagggtgtg tggcctgaat
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421 ggcgtcacct tcctggcatt tgggaatggg gcacctgaca tcttcagtgc cctggtggcc
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661 ttccgtggca gggtcaccct ggcattgggt ctgggttacc tgggcttgta tgtgttctat
721 gtggctcactg tgattctctg cacctggatc taccaacggc aacggagagg atctctgttc
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1081 ctgcatctgg ttatcagccc cctggttgtg gtccctgacc tgcatcgagg gacctatggt
1141 gtctatgaga taggcggcct cgttcccgct tgggtcgtgg tgggtgatcg aggcacagcc
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1441 cagggctacc cacggatggc gttctccgcc tgctttggcg gcatcatctt caacatcctc
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1561 gagccagacg gactgctggt gtgggtcctg gcaggcgccc tggggctcag cctcgtcttc
1621 tccttggtct cagtccattt gcagtgtctc cagctcagca gactctatgg cttctgctg
1681 ctctcttctt acctgaactt ccttgctcgtg gccctcctca ctgaatttgg agtgattcac
1741 ctgaaaagca tgtga
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L2 ANSWER 25 OF 26 GENBANK.RTM. COPYRIGHT 2005 on STN

LOCUS (LOC) : AX537505 GenBank (R)
GenBank ACC. NO. (GBN) : AX537505
GenBank VERSION (VER) : AX537505.1 GI:25269330
CAS REGISTRY NO. (RN) : 493300-21-3
SEQUENCE LENGTH (SQL) : 2875
MOLECULE TYPE (CI) : DNA; linear
DIVISION CODE (CI) : Patent
DATE (DATE) : 23 Nov 2002
DEFINITION (DEF) : Sequence 1 from Patent EP1241260.
SOURCE : Homo sapiens (human)
ORGANISM (ORGN) : Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo
NUCLEIC ACID COUNT (NA) : 525 a 868 c 810 g 672 t
REFERENCE : 1
AUTHOR (AU) : Curtis, R.A.
TITLE (TI) : 69318, a ***human*** ***sodium*** /
calcium ***exchanger*** (transporter
protein) and uses therefor
JOURNAL (SO) : Patent: EP 1241260-A 1 18-SEP-2002; MILLENIUM
PHARMACEUTICALS, INC. (US)

FEATURES (FEAT) :

| Feature Key | Location | Qualifier |
|-------------|----------|--------------------------|
| source | 1..2875 | /organism="Homo sapiens" |

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/db-xref="taxon:9606"
/note="unnamed protein product"
/codon-start=1
/protein-id="CAD57494.1"
/db-xref="GI:25269331"
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VNQTPVVDRCRKCGLNVSDFRCDIFRTNPDCHSDG
GYLDYLEGIFCHFPPSLLPLAVTL
YVSWLLYLFLILGVTAAKFFCPNLSAISTTLKLS
HNVAGVTFLAFNGAPDIFSAIVA
FSDPHTAGLALGALFGAGVLVTTVVAGGITILHP
FMAASRPFFRDIVFYMVAVFLTFL
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L2 ANSWER 26 OF 26 GENBANK.RTM. COPYRIGHT 2005 on STN

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 sequence.
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 JOURNAL (SO): Unpublished
 REFERENCE: 2 (bases 1 to 2471)
 AUTHOR (AU): Halushka,M.; Solinsky,K.; Chakravarti,A.
 TITLE (TI): Direct Submission
 JOURNAL (SO): Submitted (03-JAN-1997) Department of Genetics, Case
 Western Reserve University, 2109 Adelbert Road,
 Cleveland, OH 44106, USA

FEATURES (FEAT):

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